ALACHUA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

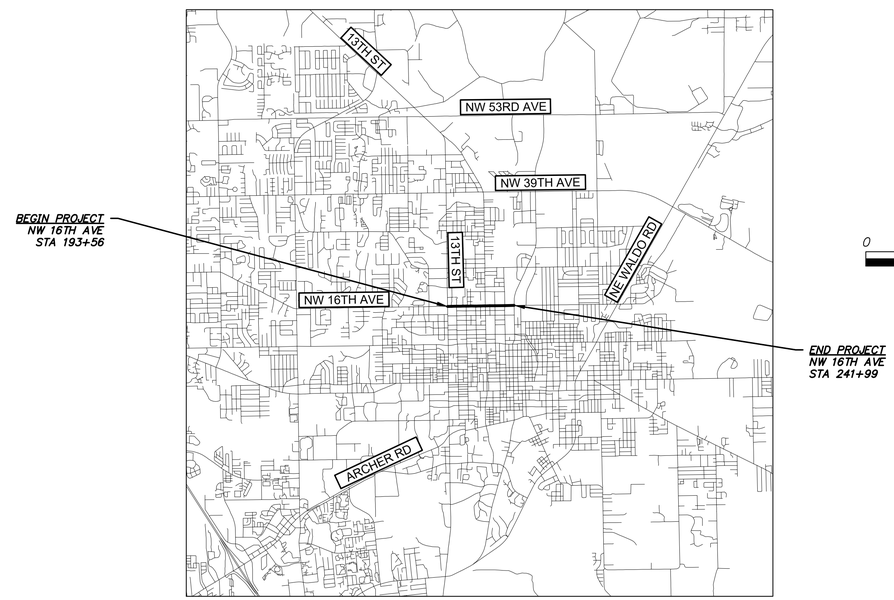
PROJECT ID 917-7902
ALACHUA COUNTY
NW 16TH AVENUE RESURFACING PROJECT

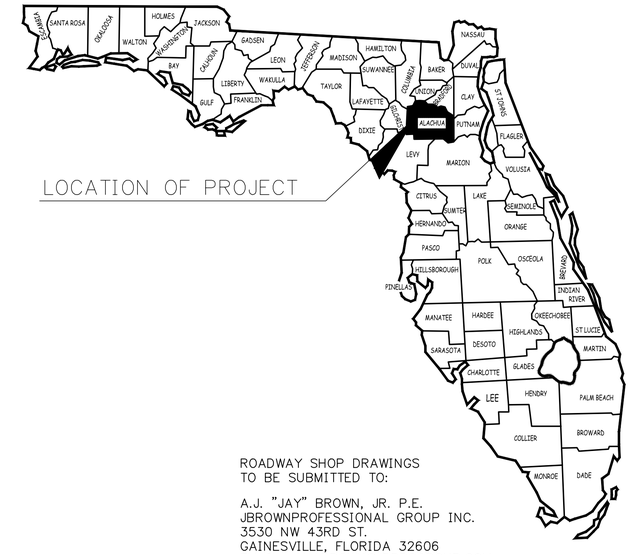
COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS





ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

A.J. "JAY" BROWN, JR. P.E.
JBROWNPROFESSIONAL GROUP INC.
3530 NW 43RD ST.
GAINESVILLE, FLORIDA 32606
EMAIL: JAY.BROWN@JBPROGROUP.COM

PLANS PREPARED BY:

JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING

JBROWN PROFESSIONAL GROUP INC.
3530 NW 43RD ST.
GAINESVILLE, FLORIDA 32606
TEL. (352) 375-8999
FAX. (352) 375-0833
EMAIL. JAY.BROWN@JBPROGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 30495

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
STANDARD PLANS FOR ROAD AND BRIDGE
CONSTRUCTION DATED FY 2018–19,
AS AMENDED BY CONTRACT DOCUMENTS.

100% CONSTRUCTION DRAWINGS
MAY 30TH, 2019

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

UTILITY COMPANIES

UTILITY COMPANY	CONTACT PERSON	PHONE NUMBER
GAINESVILLE REGIONAL UTILITIES	ANDY ROBERTS	352–393–1639
COX CABLE	ADAM GAUSE	352–337–2142
AT&T	KIRBY SPENCER	386–366–4588
FLORIDA GAS	JOSEPH E SANCHEZ	407–838–7171
CITY OF GAINES. PUBLIC WORKS	TRAVIS LAW	352–334–2134

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	4,336	0.821
BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	4,336	0.821
EXCEPTIONS	179	0.034
GROSS LENGTH OF PROJECT	4,515	0.855

KEY SHEET REVISIONS

DATE	BY	DESCRIPTION

ROADWAY PLANS ENGINEER OF RECORD: A.J. "JAY" BROWN JR., P.E.

P.E. NO.: 43879

FISCAL YEAR	SHEET NO.
2018	1

ALACHUA COUNTY PROJECT MANAGER: BRIAN M. SINGLETON, P.E. ALACHUA COUNTY PROJECT NO: 917–7902

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.
Digitally signed by Anthony J Brown Jr.
DN: cn=Anthony J Brown Jr., o=n/a, ou=JBROWNPROFESSIONAL GROUP INC, ou=JBROWNPROFESSIONALGROUP, ou=Engineering, ou=Not a valid certificate issuer, email=jay.brown@jbprogroup.com
Date: 2019.05.30 07:25:46 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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ANTHONY J. BROWN JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

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E-MAIL: contact@jbprogroup.com

SHEET TITLE: COVER SHEET

DATE: MAY 2019
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C0.0

STANDARD ABBREVIATIONS

ACPW	ALACHUA COUNTY PUBLIC WORKS
ADJ	ADJACENT
ALUM	ALUMINUM
APT	APARTMENT
ASPH	ASPHALT
B&J	BORE & JACK
BC	BACK OF CURB
BCCMP	BITUNIMOUS COATED CORRUGATED METAL PIPE
BLDG	BUILDING
BM	BENCHMARK
BOP	BEGINNING OF PROFILE
BSL	BUILDING SETBACK LINE
C&G	CURB & GUTTER
C1	CURVE ONE
CATV	CABLE TELEVISION
CET	CURB END TAPER
CF	CUBIC FEET
CI	CAST IRON
CIP	CAST-IN-PLACE
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCHED
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COG	CITY OF GAINESVILLE
COMM	COMMUNICATIONS
CONC	CONCRETE
CPE	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
DBI	DITCH BOTTOM INLET
DCBP	DOUBLE CHECK BACKFLOW PREVENTER
DEG	DEGREES
DHWL	DESIGN HIGH WATER LEVEL
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
E	EAST
E/M	EASEMENT
EL	ELEVATION
ELEC	ELECTRIC
EOP	END OF PROFILE
EP	EDGE OF PAVEMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
EX	EXISTING
FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FIRE LINE
FLL	FLOW LINE
FM	FORCE MAIN
FO	FIBER OPTIC
FP	FLOOD PLAIN
FT	FEET
FUT	FUTURE
GALV	GALVANIZED
GRU	GAINESVILLE REGIONAL UTILITIES
GV	GATE VALVE
HC	HANDICAP
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
L1	LINE ONE
LAT	LATITUDE
LONG	LONGITUDE
LTG	LIGHT
LP	LOW POINT
LT	LEFT
MAINT	MAINTENANCE
MAX	MAXIMUM
MES	MITERED END SECTION
MH	MANHOLE
MIN	MINIMUM
MO	MONTH
N	NORTH
N/A	NOT APPLICABLE
NE	NORTH EAST
NG	NATURAL GRADE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTH WEST
OC	ON CENTER
PCPE	PERFORATED CORRUGATED POLYETHYLENE PIPE
PE	POLYETHYLENE PIPE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PL	PROPERTY LINE
PRVT	PRIVATE
PRI	PRIMARY
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED (NON ARSENIC)
PUD	PLANNED URBAN DEVELOPMENT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
P&P	PLAN & PROFILE
R/W	RIGHT OF WAY
R1'	ONE FOOT RADIUS
RB	REACTION BLOCK
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
REQ'D	REQUIRED
RT	RIGHT
S	SOUTH
S/W	SIDEWALK
SE	SOUTH EAST
SEC	SECONDARY
SF	SQUARE FEET
SG	SWITCH GEAR
SI	SURFACE INLET
SPA	SPACE
SJRWMD	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
SPT	STANDARD PENETRATION TEST
SS	SANITARY SEWER
SSL	STAINLESS STEEL
ST	STORM
ST.	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTH WEST
SY	SQUARE YARD
TBC	TRAFFIC BEARING COVER
TBM	TEMPORARY BENCHMARK
TEL	TELEPHONE
TFMR	TRANSFORMER
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UD	UNDER DRAIN
UTIL	UTILITIES
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
W	WEST
W/	WITH
W/WW	WATER/WASTEWATER
WM	WATER MAIN
WS	WATER SERVICE
WW	WASTEWATER
YR	YEAR

GENERAL CONSTRUCTION NOTES

1. TRAFFIC CONTROL WITHIN EXISTING R/W SHALL BE IN ACCORDANCE WITH LATEST MUTCD OR FDOT STANDARDS FOR CONTROL OF TRAFFIC THROUGH WORK ZONES.
2. THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE FOR INSPECTION OF PERTINENT STAGES OF CONSTRUCTION WITHIN THEIR RESPECTIVE R/W;SUBGRADE PREPARATION, LIMEROCK PLACEMENT, INSPECTION OF THE SWEPT LIMEROCK BASE PRIOR TO THE PLACEMENT OF ASPHALT, AND OTHERS AS REQUIRED FOR APPROVAL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK LIMITS OF ALL IMPROVEMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION. IN THE EVENT THAT A UTILITY CONFLICT OCCURS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND UTILITY PROVIDER TO COORDINATE REMEDIAL ACTION.
4. ALL DISTURBED AREAS WITHIN THE RIGHTS-OF-WAY SHALL BE SODDED UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL FOREIGN DEBRIS AND MATERIAL OFFSITE. DISPOSAL METHODS AND LOCATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND REQUIREMENTS.

WORK WITHIN COUNTY RIGHT-OF-WAY

1. THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT (ACPW).
2. NO WORK SHALL BE DONE NOR MATERIALS USED IN THE RIGHT-OF-WAY WITHOUT INSPECTION BY ALACHUA COUNTY PUBLIC WORKS (352-548-1240). THE CONTRACTOR SHALL FURNISH ACPW WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.
3. ALACHUA COUNTY PUBLIC WORKS RESERVES THE RIGHT TO MODIFY THE PROPOSED WORK WITHIN THEIR RIGHT-OF-WAY TO ENSURE COMPATIBILITY WITH EXISTING IMPROVEMENTS. SUCH MODIFICATION COSTS SHALL BE BORN BY THE CONTRACTOR.
4. TRAFFIC CONTROL WITHIN EXISTING R/W SHALL BE IN ACCORDANCE WITH LATEST MUTCD OR FDOT STANDARDS FOR CONTROL OF TRAFFIC THROUGH WORK ZONES.
5. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC (MOT) PLAN TO THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT FOR MOT PERMIT APPROVAL PRIOR TO CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
6. OPEN CUT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH FDOT INDEX 125-001, AND USING THE FLOWABLE FILL OPTION.
7. ALL WORK FOR THIS PROJECT SHALL TAKE PLACE BETWEEN THE HOURS OF 6:30 PM AND 6:30 AM.

GEOTECHNICAL TESTING GENERAL NOTE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING FOR EACH SPECIFIED DESIGN COURSE, SUBGRADE, BASE COURSE, AND PAVEMENT. TESTING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT PUBLIC WORKS CONSTRUCTION AND INSPECTION STANDARDS. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER FOR REVIEW AND APPROVAL OF CONFORMANCE TO DESIGN SPECIFICATIONS PRIOR TO CONSTRUCTION OF THE SUBSEQUENT COURSE.
2. IN THE EVENT THE CONTRACTOR PROCEEDS TO THE NEXT COURSE PRIOR TO SUBMITTING AND RECEIVING APPROVAL OF THE TEST RESULTS, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RECONSTRUCT ANY WORK NECESSARY TO BRING ALL DESIGN COURSES INTO COMPLIANCE WITH THE DESIGN SECTION SPECIFICATIONS.
3. TESTING REPORTS WITH GEOTECHNICAL TESTING RESULTS SHALL DENOTE THE TESTING LOCATIONS.
4. TESTING ALONG ROADWAYS SHALL BE PROVIDED AT A MINIMUM 200 LF SPACING.

EROSION AND SEDIMENTATION CONTROL NOTES

1. SEE EROSION AND SEDIMENTATION PREVENTION PLAN FOR SPECIFIC EROSION/SEDIMENTATION CONTROL MEASURES.
2. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT EROSION AND SEDIMENTATION CONTROL DESIGNER AND REVIEWER MANUAL (JUNE 2013).
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER 1/2" OR GREATER RAINFALL.
4. ALL EROSION AND SEDIMENTAION CONTROL STRUCTURES SHALL BE MAINTAINED UNTIL VEGETATION IS FULLY ESTABLISHED.
5. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
6. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JUNE 2013). EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

PAVING, GRADING AND DRAINAGE SPECIFICATIONS

1. ALL DRAINAGE CONSTRUCTION, INCLUDING MATERIALS, CONSTRUCTION TECHNIQUES, AND TECHNICAL STANDARDS, SHALL BE IN ACCORDANCE WITH THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL AREAS OF NEW CONSTRUCTION SHALL BE CLEANED AND GRUBBED. TOP SOIL REMAINING ONSITE MAY BE STOCKPILED FOR FINE GRADING IN LANDSCAPED AREAS, IF SUITABLE. THE CONTRACTOR SHALL FURNISH ALL FILL REQUIRED AND DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIAL OFFSITE IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS. TREES TO REMAIN SHALL BE PROTECTED PRIOR TO STARTING CONSTRUCTION AND SHALL BE PROTECTED THROUGHOUT SITE CONSTRUCTION.
3. ALL NEW ASPHALT PAVEMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   A. ASPHALTIC CONCRETE: ALL ASPHALTIC CONCRETE MATERIAL SHALL BE TYPE SP STRUCTURAL COURSE AND TYPE FC FRICTION COURSE (TYPE & THICKNESS PER DESIGN SECTION). STRUCTURAL COURSE SHALL CONFORM TO SECTION 334 AND FRICTION COURSE SHALL CONFORM TO SECTION 337. ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL CONFORM TO SECTION 330.
4. ALL ASPHALTIC CONCRETE MIX DESIGN AND PORTLAND CONCRETE CEMENT MIX DESIGN SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. ASPHALT MIX DESIGN MUST BE APPROVED BY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT. DENSITY REPORTS AND ASPHALT MIX DESIGN REPORT SHALL BE SUBMITTED TO THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO PAVING BEING PERFORMED.
5. ALL CONCRETE USED FOR CONSTRUCTION OF DRAINAGE STRUCTURES, SIDEWALKS, SPILLWAYS, CURBING, ETC. SHALL BE CLASS NS CONFORMING TO SECTION 347.
6. CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 522.
7. CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN CONFORMANCE TO SECTION 520.
8. REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO SECTION 449-4.
9. THE CONTRACTOR SHALL FOLLOW THE FDOT EROSION AND SEDIMENTATION CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013), FOR ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES. REFER TO SHEETS C4.1 AND C4.2 FOR THE EROSION AND SEDIMENTATION CONTROL PLAN.
10. EXISTING TOPOGRAPHY INFORMATION DEPICTED IS BASED ON THE PROJECT TOPOGRAPHIC SURVEY PROVIDED BY LOCHRANE ENGINEERING. JBPRO IS NOT RESPONSIBLE FOR THE ACCURACY OF THE EXISTING TOPOGRAPHIC CONDITIONS DEPICTED. THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATION GRADES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT WILL AFFECT FINISH GRADE DESIGN FOR PROPER RUNOFF CONDITIONS PRIOR TO CONSTRUCTION. JBPRO WILL ASSIST THE CONTRACTOR IN REVISING ANY GRADING DISCREPANCIES PRIOR TO CONSTRUCTION TO ASSURE PROPER GRADING AND RUNOFF CONDITIONS RESULT UPON COMPLETION OF CONSTRUCTION.

LEGEND

	EXISTING STORM SEWER LINE
FM	EXISTING SANITARY SEWER LINE
G	EXISTING GAS SERVICE LINE
CATV	EXISTING CATV & TELEPHONE LINE
BP	EXISTING UNDERGROUND ELECTRIC LINE
P	EXISTING OVERHEAD ELECTRIC LINE
WL	EXISTING WATER MAIN
76	EXISTING CONTOUR LINE
x x x	EXISTING FENCE
+89.8	NATURAL GROUND SPOT ELEVATION
9 LA (2060)	EXISTING TREE TO REMAIN
9 LA (2221)	EXISTING TREE TO BE REMOVED
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONC PAVEMENT/SIDEWALK
• 35.00	PROPOSED FINISH SPOT ELEVATION
// // //	PROPOSED SILT FENCE
T T T	PROPOSED TREE BARRICADE FENCE
	PROPOSED CENTERLINE
ST	PROPOSED STORM SEWER LINE
	PROPOSED PUE
	PROPOSED DRAINAGE SWALE
	RIGHT-OF-WAY
	TEMPORARY BENCH MARK
B-3	SOIL BORING LOCATION
	GRAVEL FILTER BAGS
	SAND BAGS

May 29, 2019 - 12:16:04 - Logan - J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets - C1.0 LAN.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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ANTHONY J. BROWN JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: LEGEND, ABBREVIATIONS, AND NOTES

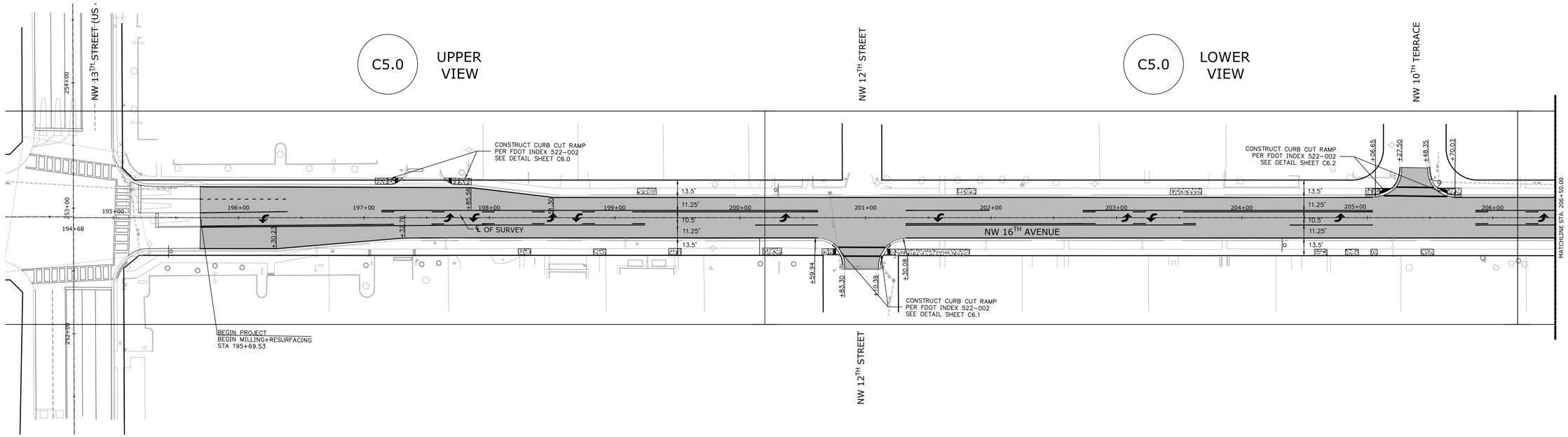
DATE: MAY 2019

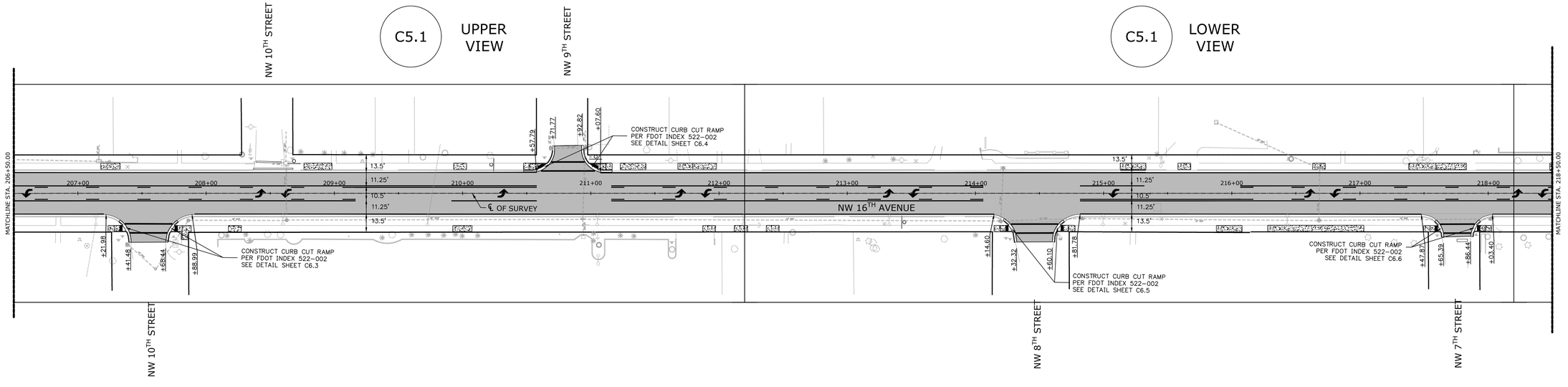
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C1.0





40 20 0 40 80 120
SCALE 1" = 40'

PROPOSED MILLING & RESURFACING

May 29, 2019 - 14:40:22 - Logan - J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ - C2.0 PROJECT LAYOUT.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Engineering, email=tony.brown@jbprogroup.com, c=US Date: 2019.05.29 07:36:06 -04'00'

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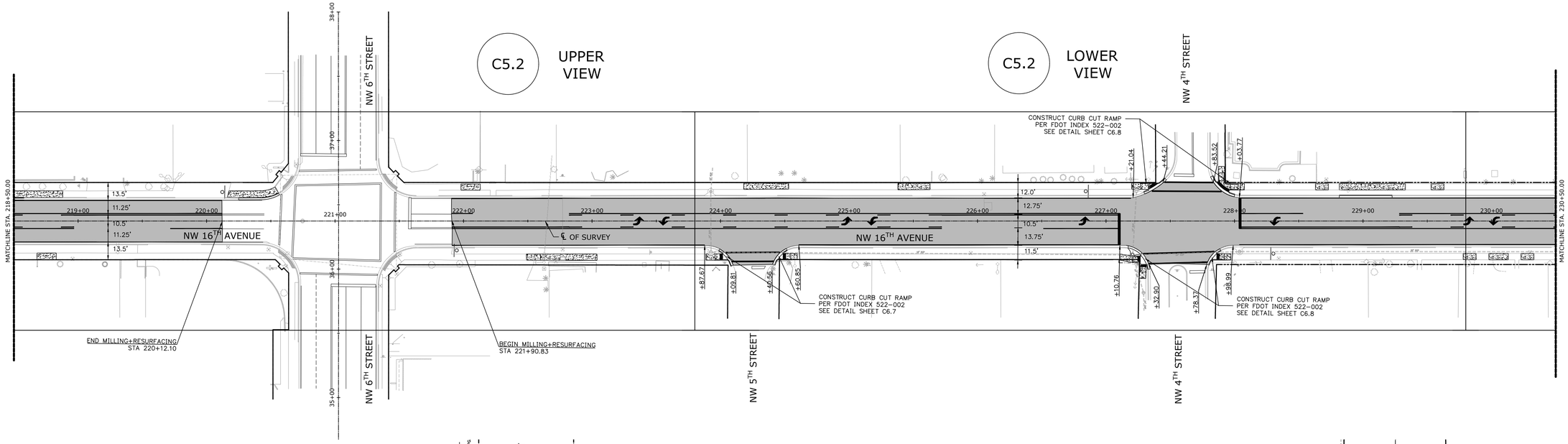
E-MAIL: contact@jbprogroup.com

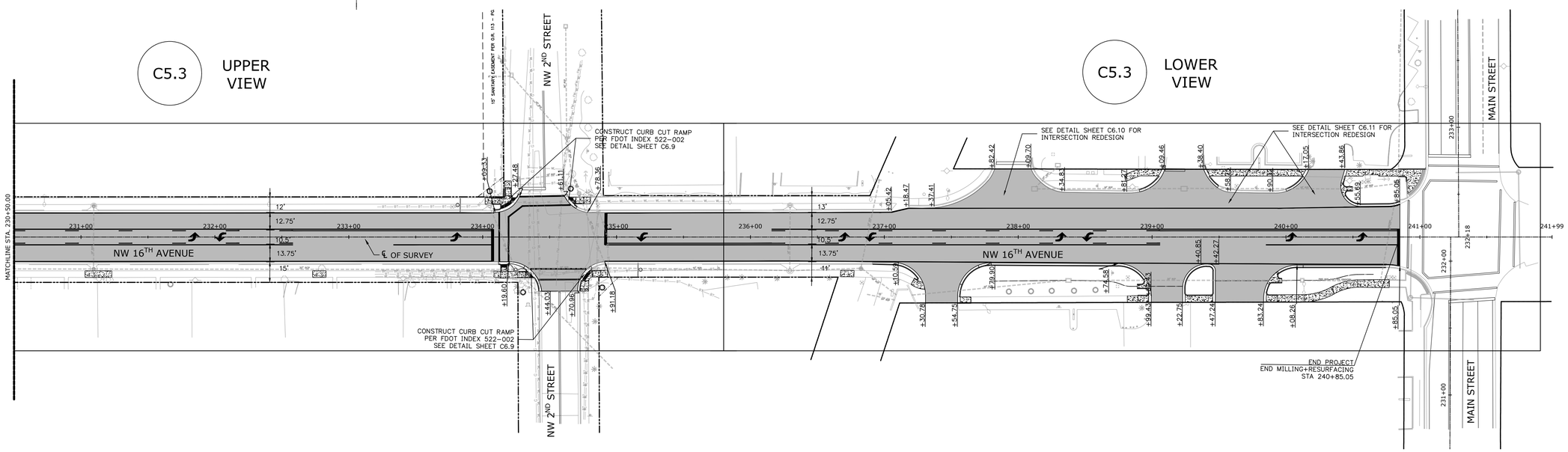
SHEET TITLE: PROJECT LAYOUT
STA. 195+69.53 TO STA. 218+50.00

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019
PROJECT NO: 338-18-06
SHEET NO: C2.0





40 20 0 40 80 120

SCALE 1" = 40'

PROPOSED MILLING & RESURFACING

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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E-MAIL: contact@jbprogroup.com

SHEET TITLE: PROJECT LAYOUT

STA. 218+50.00 TO STA. 237+46.46

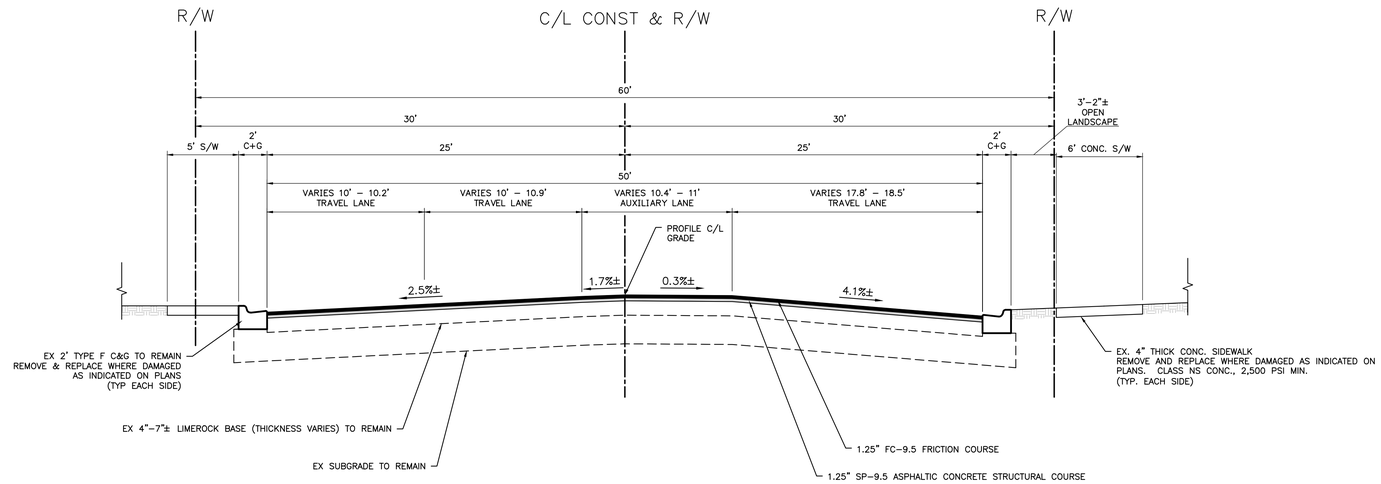
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C2.1



5 2.5 0 5 10 15

HORIZONTAL GRAPHICAL SCALE

1" = 5' HORIZONTAL
1" = 2.5' VERTICAL

TYPICAL SECTION No. 1
NW 16TH AVENUE
STA 195+69.53 TO STA 196+30.23

TRAFFIC DATA

CURRENT YEAR	= 2018	AADT	= 12,771
ESTIMATED DESIGN YEAR	= 2038	AADT	= XXX
DESIGN SPEED	= 35	MPH	
POSTED SPEED	= 35	MPH	

MILLING

MILL EXISTING ASPHALT PAVEMENT	(2.25" AVG DEPTH)
MILL EXISTING LIMEROCK BASE	(0.25" AVG DEPTH)
TOTAL MILLING DEPTH	(2.50" DEPTH)

RESURFACING

FRICTION COURSE FC–9.5	(1.25")
STRUCTURAL COURSE SP–9.5	(1.25")

TYPICAL SECTION NOTES

1. STRUCTURAL OR FRICTION COURSE SHALL BE PLACED THE SAME DAY AS THE MILLING OPERATION. DRIVING ON MILLED SURFACE SHALL NOT BE PERMITTED
2. ALL DISTURBED AREAS WITHIN R/W SHALL BE SODDED.
3. ALL LIMEROCK, EITHER PLACED NEW OR EXPOSED BY MILLING, SHALL BE PRIMED.
4. ALL ASPHALT PAVEMENT COURSES SHALL BE TRAFFIC LEVEL B MIXTURE.
5. ALL HOT MIX ASPHALT (HMA) MIXTURES SHALL UTILIZE PG 76–22 POLYMER MODIFIED ASPHALT BINDER. THIS APPLIES TO STRUCTURAL AND FRICTION COURSES.

May 29, 2019 – 14:44:03 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C3.0 TYP SECTIONS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr.
DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=5005170300550006L24C7330000CD6B, email=tony@jbprogroup.com, c=US
Date: 2019.05.30 07:36:51 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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ANTHONY J. BROWN, JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: ROADWAY TYPICAL SECTION

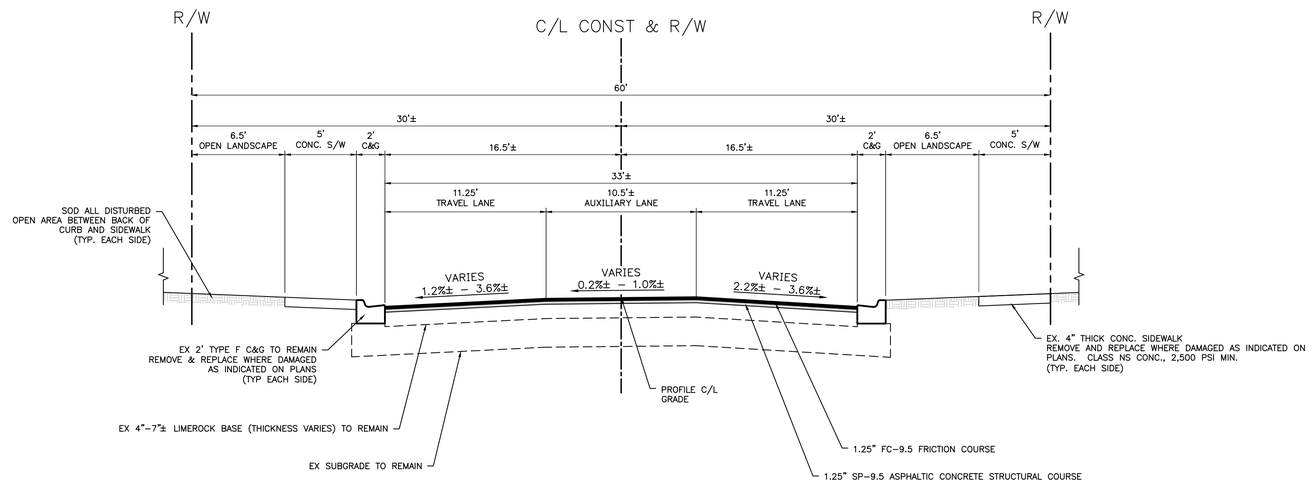
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C3.0



5 2.5 0 5 10 15

HORIZONTAL GRAPHICAL SCALE

1" = 5' HORIZONTAL
1" = 2.5' VERTICAL

TYPICAL SECTION No. 2

NW 16TH AVENUE

STA 198+51.30 TO STA 200+59.94
STA 201+30.08 TO STA 205+06.65
STA 205+70.03 TO STA 207+21.98
STA 207+88.99 TO STA 210+57.79
STA 211+07.60 TO STA 214+14.60
STA 214+81.78 TO STA 217+47.87
STA 218+03.40 TO STA 220+12.10

TRAFFIC DATA

CURRENT YEAR	= 2018	AADT	= 12,771
ESTIMATED DESIGN YEAR	= 2038	AADT	= XXX
DESIGN SPEED	= 35	MPH	
POSTED SPEED	= 35	MPH	

MILLING

MILL EXISTING ASPHALT PAVEMENT	(2.25" AVG DEPTH)
MILL EXISTING LIMEROCK BASE	(0.25" AVG DEPTH)
TOTAL MILLING DEPTH	(2.50" DEPTH)

RESURFACING

FRICTION COURSE FC–9.5	(1.25")
STRUCTURAL COURSE SP–9.5	(1.25")

TYPICAL SECTION NOTES

1. STRUCTURAL OR FRICTION COURSE SHALL BE PLACED THE SAME DAY AS THE MILLING OPERATION. DRIVING ON MILLED SURFACE SHALL NOT BE PERMITTED
2. ALL DISTURBED AREAS WITHIN R/W SHALL BE SODDED.
3. ALL LIMEROCK, EITHER PLACED NEW OR EXPOSED BY MILLING, SHALL BE PRIMED.
4. ALL ASPHALT PAVEMENT COURSES SHALL BE TRAFFIC LEVEL B MIXTURE.
5. ALL HOT MIX ASPHALT (HMA) MIXTURES SHALL UTILIZE PG 76–22 POLYMER MODIFIED ASPHALT BINDER. THIS APPLIES TO STRUCTURAL AND FRICTION COURSES.

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

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Date: 2019.05.29 07:36:52 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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SHEET TITLE: ROADWAY TYPICAL SECTION

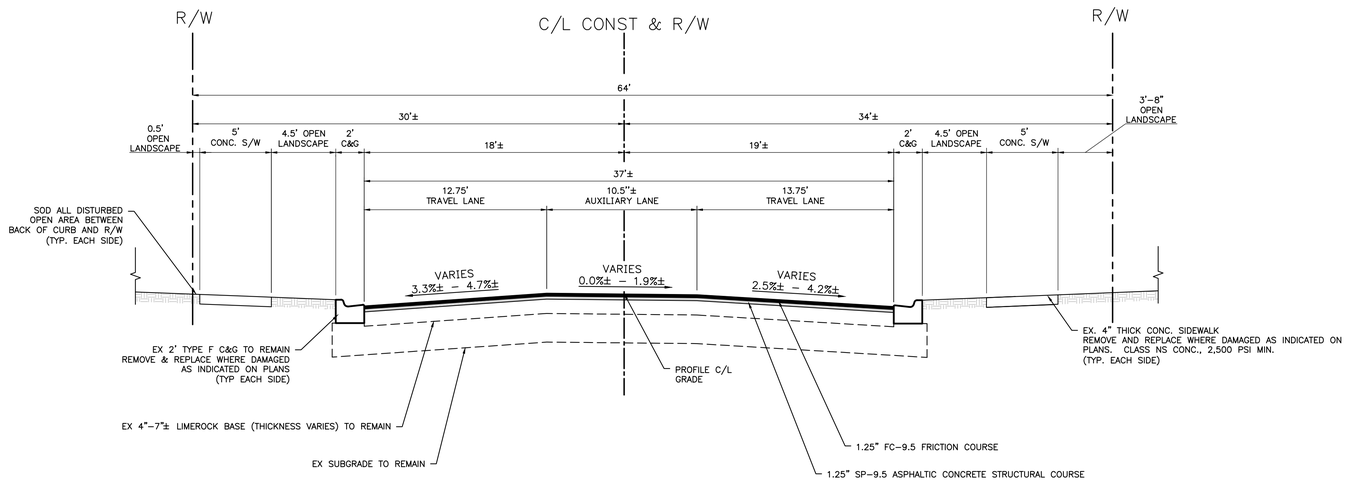
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C3.1



5 2.5 0 5 10 15

HORIZONTAL GRAPHICAL SCALE

1" = 5' HORIZONTAL
1" = 2.5' VERTICAL

TYPICAL SECTION No. 3

NW 16TH AVENUE

STA 221+90.83 TO STA 223+87.67
STA 228+03.77 TO STA 234+09.33

TRAFFIC DATA

CURRENT YEAR	= 2018 AADT	= 12,771
ESTIMATED DESIGN YEAR	= 2038 AADT	= XXX
DESIGN SPEED	= 35 MPH	
POSTED SPEED	= 35 MPH	

MILLING

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MILL EXISTING LIMEROCK BASE	(0.25" AVG DEPTH)
TOTAL MILLING DEPTH	(2.50" DEPTH)

RESURFACING

FRICTION COURSE FC-9.5	(1.25")
STRUCTURAL COURSE SP-9.5	(1.25")

TYPICAL SECTION NOTES

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5. ALL HOT MIX ASPHALT (HMA) MIXTURES SHALL UTILIZE PG 76-22 POLYMER MODIFIED ASPHALT BINDER. THIS APPLIES TO STRUCTURAL AND FRICTION COURSES.

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=JBROWN0100, email=tony.brown@jbprogroup.com, c=US Date: 2019.05.30 07:34:54-04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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SHEET TITLE: ROADWAY TYPICAL SECTION

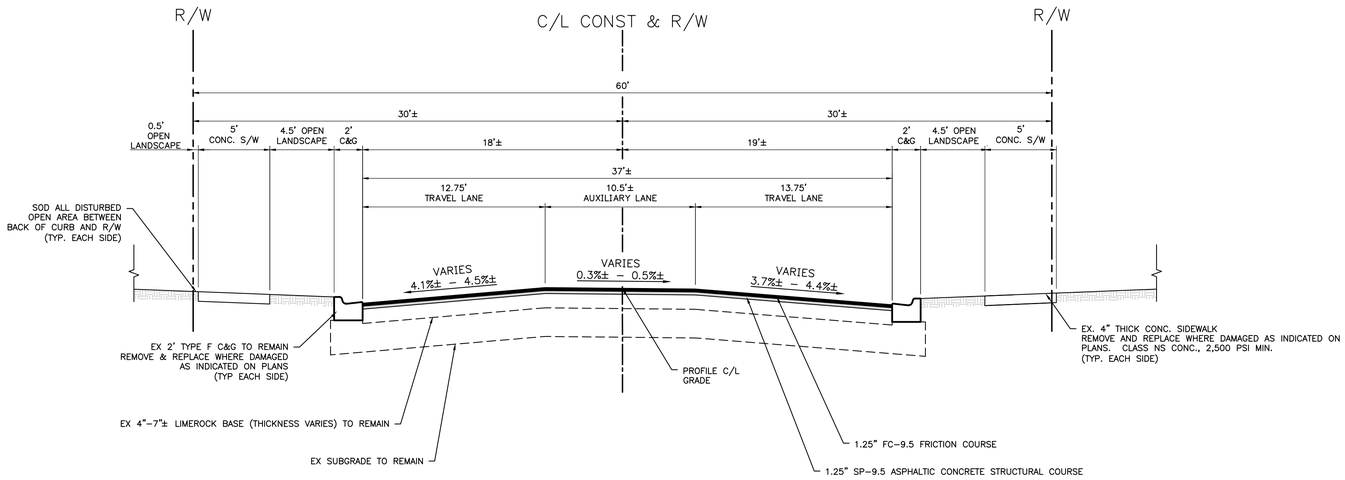
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C3.2



5 2.5 0 5 10 15

HORIZONTAL GRAPHICAL SCALE

1" = 5' HORIZONTAL
1" = 2.5' VERTICAL

TYPICAL SECTION No. 4
NW 16TH AVENUE
STA 224+60.85 TO STA 227+10.76

TRAFFIC DATA

CURRENT YEAR	= 2018	AADT	= 12,771
ESTIMATED DESIGN YEAR	= 2038	AADT	= XXX
DESIGN SPEED	= 35	MPH	
POSTED SPEED	= 35	MPH	

MILLING

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MILL EXISTING LIMEROCK BASE	(0.25" AVG DEPTH)
TOTAL MILLING DEPTH	(2.50" DEPTH)

RESURFACING

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STRUCTURAL COURSE SP–9.5	(1.25")

TYPICAL SECTION NOTES

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May 29, 2019 – 14:44:03 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C3.0 TYP SECTIONS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr
DN: cn=Anthony J Brown Jr., o=JB PROFESSIONAL GROUP INC, ou=BUILDING PERMITS, email=JBCINC@AOL.COM, c=US
Date: 2019.05.30 07:53:51 -04'00'

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SHEET TITLE: ROADWAY TYPICAL SECTION

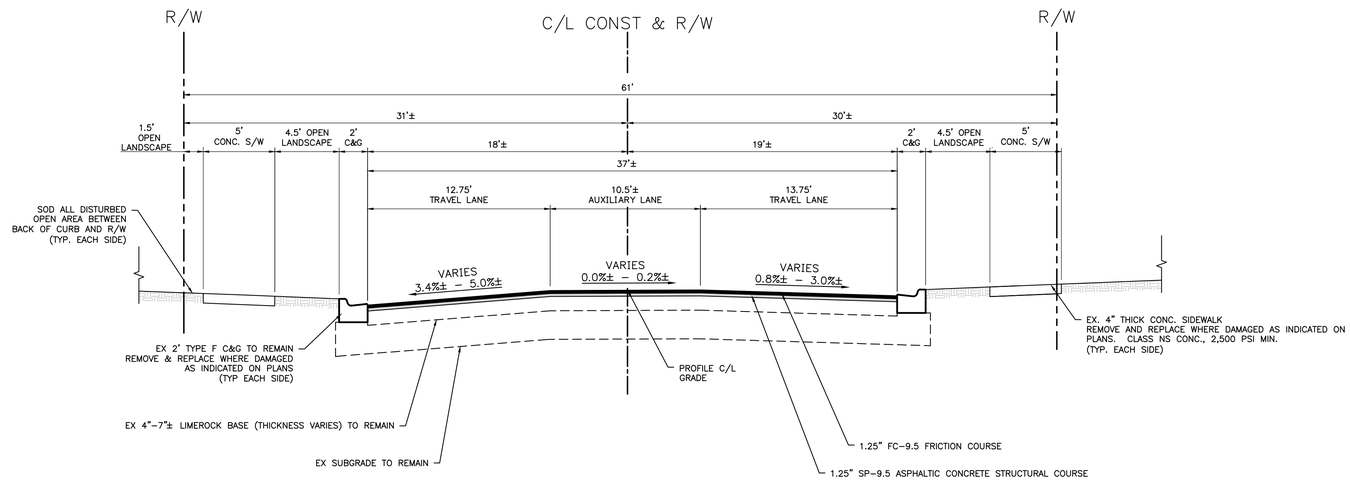
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C3.3



5 2.5 0 5 10 15

HORIZONTAL GRAPHICAL SCALE

1" = 5' HORIZONTAL
1" = 2.5' VERTICAL

TYPICAL SECTION No. 5
NW 16TH AVENUE
STA 234+91.18 TO STA 237+05.42

TRAFFIC DATA

CURRENT YEAR	= 2018 AADT	= 12,771
ESTIMATED DESIGN YEAR	= 2038 AADT	= XXX
DESIGN SPEED	= 35 MPH	
POSTED SPEED	= 35 MPH	

MILLING

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MILL EXISTING LIMEROCK BASE	(0.25" AVG DEPTH)
TOTAL MILLING DEPTH	(2.50" DEPTH)

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REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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SHEET TITLE: ROADWAY TYPICAL SECTION

DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C3.4

I. INTRODUCTION

THIS DOCUMENT WAS PREPARED IN ORDER TO BE IN COMPLIANCE WITH CHAPTER 62-621.300(4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGES OF STORMWATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE AND IS ORGANIZED TO CORRESPOND TO PART V OF DEP DOCUMENT NO. 62-621.300(4)(a). FDEP FORM 62-621.300(4)(B) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT.

II. SITE DESCRIPTION

CITY & COUNTY:	CITY OF GAINESVILLE, ALACHUA COUNTY
SECTION / TOWNSHIP / RANGE:	SECTION 32, TOWNSHIP 9 SOUTH, RANGE 20 EAST
COUNTY PARCEL NO.:	-----
LATITUDE & LONGITUDE:	INTERSECTION OF NW 13TH ST + : 29', 40', 0.05" N; 82', 20', 20.96" W INTERSECTION OF N MAIN ST + : 29', 39', 59.71" N; 82', 19', 28.12" W
STREET ADDRESS:	FROM 13TH ST TO N MAIN STREET GAINESVILLE, FL 32606
PROJECT AREA:	6.56 ACRES
SITE LOCATION MAP:	SEE COVER SHEET OF CONSTRUCTION PLANS.

A. NATURE OF CONSTRUCTION ACTIVITY

NATURE OF CONSTRUCTION ACTIVITY:
THE PROPOSED PROJECT IS TO RESURFACE NW 16TH AVENUE. ALSO INCLUDED ARE WIDENED SHOULDERS, NEW MEDIAN, UPGRADED TRAFFIC SIGNAL AND ROADWAY LIGHTING, AND RELOCATED SIDEWALK AND CONCRETE SWALE.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALES AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013).
2. THE SITE SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
3. IF SUITABLE, EXCAVATED SOIL MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL OFFSITE TO A PERMITTED LOCATION.
4. UTILITY RELOCATION SHALL OCCUR.
5. ROADWAY WIDENING AND SIDEWALK CONSTRUCTION SHALL TAKE PLACE.
6. NEW DRAINAGE STRUCTURES AND CONCRETE SWALE SHALL BE CONSTRUCTED.
7. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORM DRAIN SYSTEM SHALL BE FLUSHED TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT. REMOVED DEBRIS AND SEDIMENT SHALL BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
8. THE STORMWATER BASIN SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT.
9. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY SODDED PER SECTION 981 - TURF MATERIALS IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2013) PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL STRUCTURES.

C. SITE DEVELOPMENT DATA

SITE AREA: 6.56 ACRES

IMPERVIOUS AREA: 5.33 ACRES

OPEN AREA: 1.23 ACRES

D. SOIL CONDITIONS & STORMWATER QUALITY

THE PROPOSED PROJECT HAS 2 DISTINCT DRAINAGE AREAS.

DRAINAGE AREA	POST DEVELOPMENT AREA (ACRES)	POST DEVELOPMENT "CN" VALUE	BASIN TYPE	DESIGN COMMENTS
DA-1	3.43 AC	89	N/A	N/A
DA-2	2.33 AC	90	N/A	N/A

E. SITE MAP

SEE SHEET C2.0 - MASTER KEY PLAN IN THE PROJECT CONSTRUCTION DRAWINGS.

F. STORMWATER OUTFALL LOCATION & RECEIVING WATER BODY

DRAINAGE AREA	STRUCTURE ID	LATITUDE & LONGITUDE	PATH TO RECEIVING WATER BODY OR MS4 SYSTEM
DA-1	EXISTING CURB INLET	29' 39' 59.7" N 82' 19' 58.1" W	THIS DRAINAGE AREA DISCHARGES INTO THE EXISTING STORM SEWER SYSTEM ON NW 6TH STREET. THE ULTIMATE RECIEVING WATER BODY IS A RETENTION BASIN SOUTH OF THE PROJECT AREA, WHICH IS A LANDLOCKED DEPRESSION WITH NO CLEAR OUTFALL.
DA-2	EXISTING SWALE	29' 39' 59.4" N 82' 19' 32.8" W	THIS DRAINAGE AREA DISCHARGES INTO THE EXISTING SWALE & STORM SEWER SYSTEM ON NW 16TH AVE. THE RECEIVING WATER BODY IS A SWALE EAST OF NW 2ND ST. THE ULTIMATE RECEIVING WATER BODY IS A LANDLOCKED DEPRESSION WITH NO CLEAR OUTFALL

III. CONTROLS TO REDUCE POLLUTION

ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ONSITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED THAN WHAT IS SPECIFIED IN THE EROSION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY. SECTION IV BELOW PROVIDES DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

IV. EROSION AND SEDIMENT CONTROLS

A. STABILIZATION PRACTICES

AS DEPICTED IN THE CONSTRUCTION DRAWINGS TYPE III SILT FENCING SHALL BE INSTALLED TO PREVENT OFFSITE EROSION AND TO PROTECT STORMWATER INFRASTRUCTURE. EXISTING TREES TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING. AS INDICATED IN THE ERP PERMIT, STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASES MORE THAN 7 DAYS AFTER CONSTRUCTION IN THOSE AREAS HAS TEMPORARILY OR PERMANENTLY CEASED. UPON COMPLETION OF CONSTRUCTION, THE BASINS SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT AFTER THE STORM DRAIN SYSTEMS ARE FLUSHED OUT. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE MAINTAINED UNTIL VEGETATION IS FULLY ESTABLISHED. ALL DISTURBED AREAS SHALL BE COMPLETELY GRASSED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FDOT INDEX #104 OR BY USE OF SOD AS DIRECTED ON THE CONSTRUCTION PLANS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURAL PRACTICES

TO PREVENT EROSION DURING CONSTRUCTION, SILT FENCING WILL BE INSTALLED AS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE FDOT EROSION AND SEDIMENTATION CONTROL MANUAL (2013) UNTIL CONSTRUCTION IS COMPLETE. THE STORM DRAIN SYSTEMS SHALL BE FLUSHED TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION. ALL REMOVED DEBRIS AND SEDIMENT SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.

C. DRAINAGE LOCATIONS THAT SERVE AREAS WITH MORE THAN 10 DISTURBED ACRES

NOT APPLICABLE.

D. DRAINAGE LOCATIONS THAT SERVE AREAS WITH LESS THAN 10 DISTURBED ACRES

ALL STORMWATER DURING CONSTRUCTION SHALL BE DIRECTED INTO THE EXISTING STORM SEWERS AND ROADSIDE SWALES WITHIN THE PROJECT AREA.

V. STORMWATER MANAGEMENT

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED. STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY. BASIN SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENT EROSION SHALL BE MAINTAINED. MAINTENANCE OF THE SYSTEM SHALL COMPLY WITH ALACHUA COUNTY REQUIREMENTS.

B. VELOCITY DISSIPATION DEVICES

NONE.

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. DISPOSAL OF WASTE AND UNSUITABLE SOILS AND MATERIAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS, INCLUDING UNSUITABLE SOILS, AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.

B. OFFSITE VEHICLE TRACKING OF SEDIMENT

IN THE EVENT THAT THE EXISTING SITE ACCESS DOES NOT ADEQUATELY PREVENT OFFSITE EROSION AND SEDIMENT FROM BEING TRANSPORTED ONTO THE ADJACENT CITY AND FDOT ROADWAYS, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE PROJECT.

C. PROPOSED POTABLE AND SANITARY SEWER SYSTEMS

ANY POTABLE WATER AND SANITARY SEWER DISTRIBUTION SYSTEMS SHALL BE CONSTRUCTED, MAINTAINED AND PROTECTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. ONLY MINOR UTILITY ADJUSUMENTS ARE ANTICIPATED FOR THIS PROJECT. NO SANITARY SEWER MODIFICATIONS ARE ANTICIPATED.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS AND PESTICIDES ON THE PROJECT SITE WILL BE AS DIRECTED BY FDOT INDEX NO.104. ESTABLISHING VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS TO GUARD AGAINST OVERUSE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. IN ADDITION, THE SITE SHALL BE IN COMPLIANCE WITH THE MORE STRINGENT ALACHUA COUNTY HAZARDOUS MATERIALS MANAGEMENT CODE, WHICH ADDRESSES STORAGE AND USE OF TOXIC MATERIALS LESS IN VOLUME THAN THE STATE THRESHOLD REQUIREMENTS.

VII. APPROVED STATE AND LOCAL PLANS

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

- ALACHUA COUNTY PUBLIC WORKS DEPARTMENT

A. CONSTRUCTION ACTIVITY DISCHARGES

IN ACCORDANCE WITH THIS PLAN, DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES WILL BE TO THE EXISTING RETENTION BASIN SOUTH OF THE SITE.

B. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITTEE RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITTEE SHALL PROVIDE A RE-CERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES.

C. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED.

VIII. MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE BASIN DOES NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.

IX. INSPECTIONS

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS GREATER THAN 0.50 INCHES. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS IN EXCESS OF 0.50 INCHES. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM INCLUDED ON THIS STORMWATER POLLUTION PREVENTION PLAN SHEET. MORE SPECIFICALLY, THE INSPECTION SHALL ENSURE THE FOLLOWING:

A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

B. MAINTENANCE PERFORMANCE

BASED ON THE RESULTS OF EACH INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

C. REPORTING REQUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM, A COPY OF WHICH IS INCLUDED ON THIS STORMWATER POLLUTION PREVENTION PLAN SHEET. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME AND QUALIFICATION OF THE INSPECTOR, THE DATE OF INSPECTION, OBSERVATIONS, AND ACTIONS TAKEN TO CORRECT NONCOMPLIANCE WITH THE PROVISIONS OF THIS PLAN. THE PERMITTEE SHALL RETAIN ALL INSPECTION REPORTS FOR A PERIOD OF THREE YEARS FROM THE DATE WHEN CONSTRUCTION IS COMPLETE OR WHEN THE SITE IS COMPLETELY STABILIZED. A COPY OF THIS PLAN SHALL BE RETAINED AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

X. NON-STORMWATER DISCHARGES

IN ADDITION TO STORMWATER RUNOFF, THIS PLAN APPLIES TO RUNOFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

CONSTRUCTION INSPECTION FORM
STORMWATER POLLUTION PREVENTION PLAN

INSPECTION FREQUENCY: WEEKLY OR AFTER 0.50 INCHES OF RAIN

PROJECT NAME: NW 16TH AVENUE RESURFACING
OWNER: ALACHUA COUNTY PUBLIC WORKS DEPT.
CONTRACTOR: _____
CONSTRUCTION MANAGER: _____

FORM INSTRUCTIONS: ENTER THE DATE OF THE INSPECTION. IF THE INSPECTED ITEM IS SATISFACTORY, INSERT A CHECK. IF THE INSPECTED ITEM IS UNSATISFACTORY, INSERT AN "X" AND DESCRIBE THE MAINTENANCE ACTIONS TAKEN TO CORRECT THE PROBLEM. THE INSPECTOR SHALL ENTER THEIR INITIALS. CREATE ADDITIONAL SHEETS IF NECESSARY.

DATE OF INSPECTION	SILT FENCING, TREE BARRICADES, ETC.	CONSTRUCTION ENTRANCE	LITTER CONTROL	BASINS & SWALES	STORM DRAIN STRUCTURES	STORM DRAIN PIPING	MATERIAL STORAGE AREAS	DUST CONTROL	BUFFER & NATURAL AREAS	LANDSCAPING, SOD, & SEED	ONSITE & ADJACENT WETLANDS & WATERBODIES	SANITARY SEWER MANHOLES	OBSERVATIONS OR MAINTENANCE ACTIONS TAKEN	INSPECTED BY

INSPECTOR INFORMATION:

NAME _____ QUALIFICATION _____ DATE _____

THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON-COMPLIANCE IDENTIFIED ABOVE.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME (RESPONSIBLE AUTHORITY) _____ DATE _____

CERTIFICATION STATEMENT
STORMWATER POLLUTION PREVENTION PLAN

ALL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) RESPONSIBLE FOR COMPLYING WITH THIS STORMWATER POLLUTION PREVENTION PLAN SHALL SIGN THE CERTIFICATION STATEMENT BELOW. MULTIPLE COPIES OF THIS CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING ON THE NUMBER OF SUB-CONTRACTORS ASSOCIATED WITH THE PROJECT.

SITE: NW 16TH AVENUE RESURFACING

CONTRACTING FIRM: _____
FIRM NAME
ADDRESS
TELEPHONE NUMBER

I CERTIFY, UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC STORMWATER PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

NAME TITLE

SIGNATURE DATE

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.
Digitally signed by Anthony J Brown Jr.
DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=0182470100000001234C7f3b0000C068, email=contact@jbprogroup.com, c=US
Date: 2019.05.29 17:32:55 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ANTHONY J. BROWN JR., PE ON MAY 30, 2019 USING A DIGITAL SIGNATURE.

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ANTHONY J. BROWN, JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN

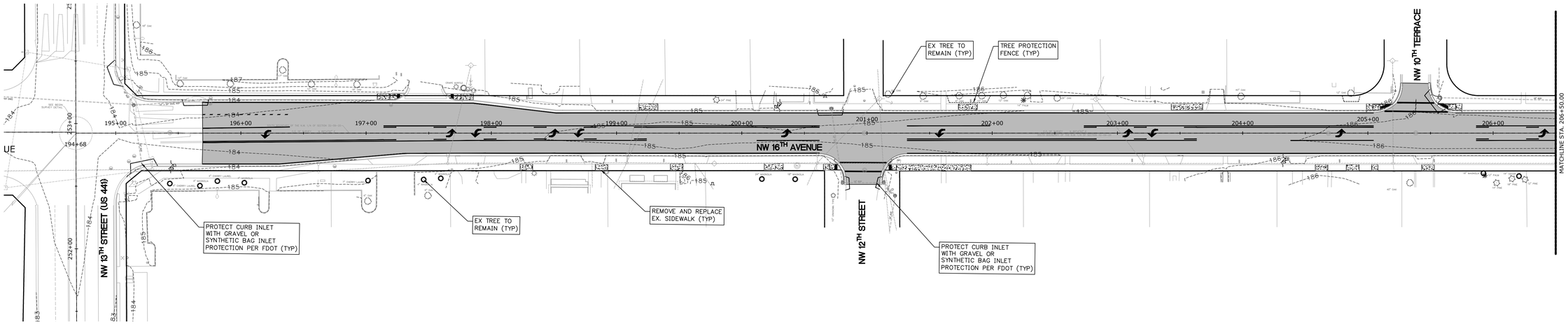
DATE: MAY 2019

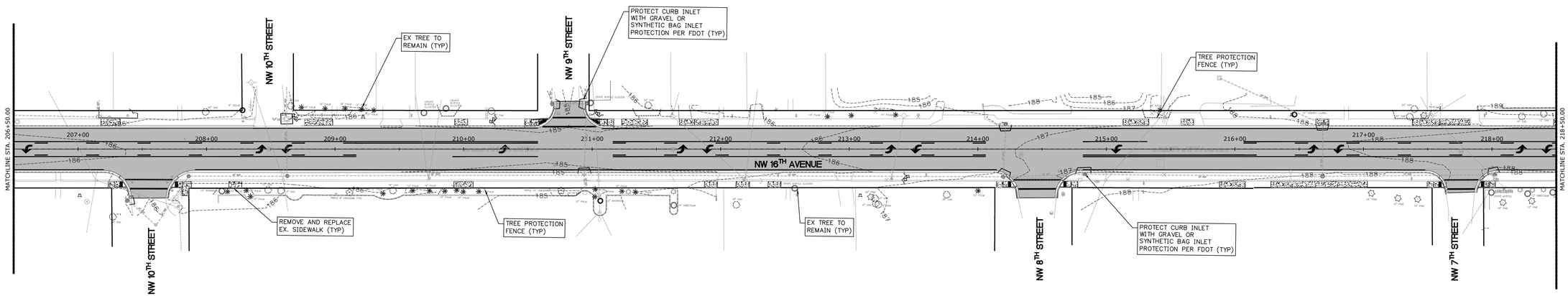
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C4.0





EROSION AND SEDIMENTATION CONTROL NOTES

1. TREE PROTECTION AND/OR FILTER SOCK SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS
2. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER 1/2" OR GREATER RAINFALL.
3. ALL EROSION AND SEDIMENTAION CONTROL STRUCTURES SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND APPROVED.
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
5. ALL DISTURBED AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE COMPLETELY GRASSED BY COMPLETION OF CONSTRUCTION. ALL DISTURBED AREAS WITHIN RIGHT-OF-WAY SHALL BE SODDED. EVIDENCE OF ESTABLISHED GRASSING MUST BE PRESENT PRIOR TO FINAL RELEASE.
6. CONTRACTOR SHALL MINIMIZE AIR POLLUTION FROM PARTICULATES AND DUST. WATER SHALL BE APPLIED AS NEEDED TO REDUCE DUST DURING CONSTRUCTION. USE OTHER STABILIZATION METHODS SUCH AS HYDROMULCHING AS NEEDED.
7. EROSION AND SEDIMENTATION CONTROL DETAILS ARE PRESENTED ON SHEET C9.0 DETAILS.
8. ROCK CHECK STRUCTURES TO BE REMOVED UPON SITE STABILIZATION.

LEGEND

- TREE PROTECTION FENCE
- FILTER BAGS
- DEMO PAVEMENT
- ASPHALT MILL & RESURFACE
- EX. TREE TO BE REMOVED

N

40 20 0 40 80 120

SCALE 1" = 40'

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JOE, ou=Engineering, ou=Engineering, ou=Engineering, ou=Engineering, ou=Engineering, ou=Engineering, email=jbpro.contact@jbprogroup.com, c=US Date: 2019.05.31 17:20:45 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: DEMOLITION, EROSION + SEDIMENTATION CONTROL PLAN
STA.195+69.53 TO STA. 218+50.00

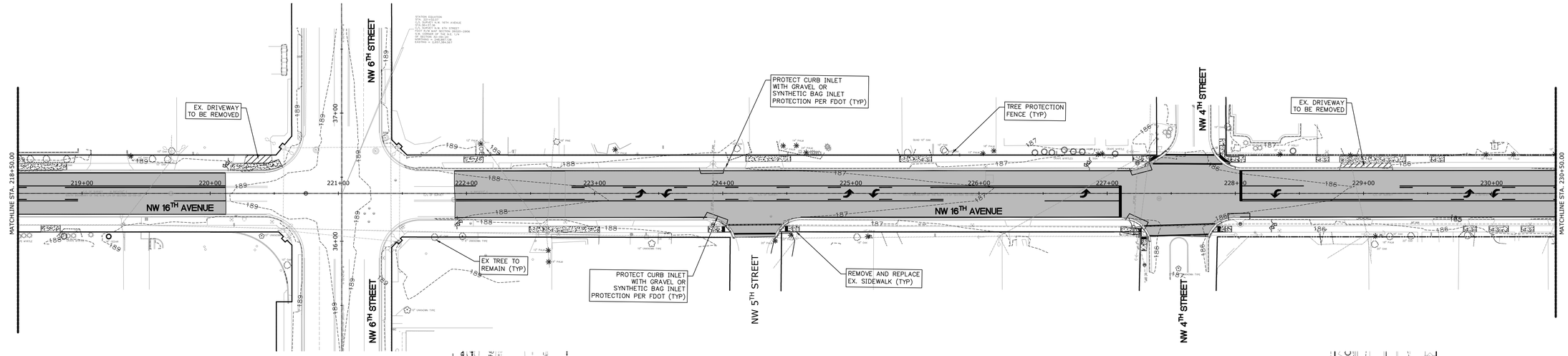
DATE: MAY 2019

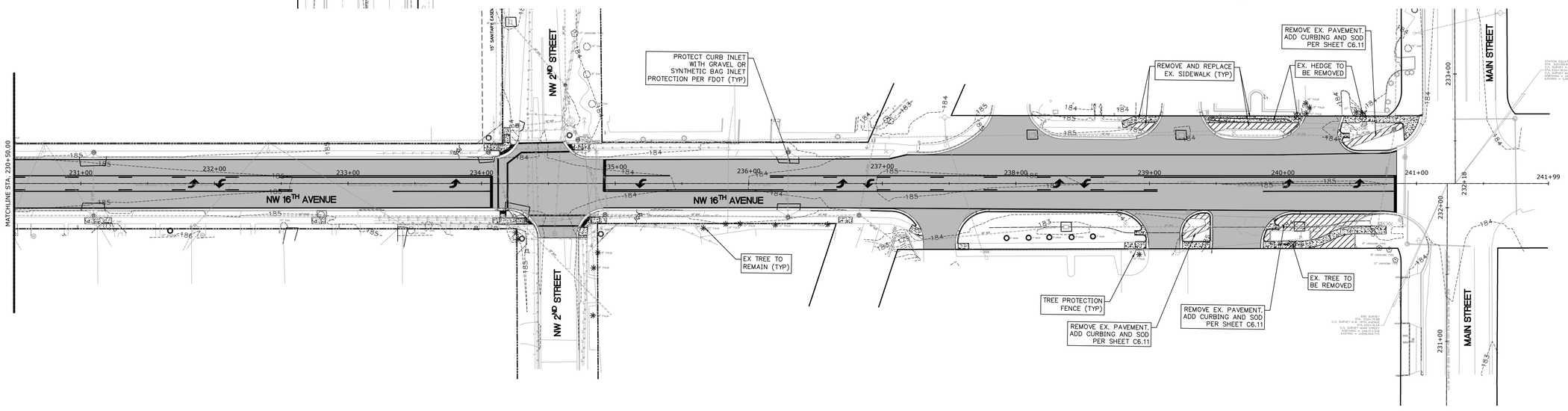
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C4.1





EROSION AND SEDIMENTATION CONTROL NOTES

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- TREE PROTECTION FENCE
- FILTER BAGS
- DEMO PAVEMENT
- ASPHALT MILL & RESURFACE
- EX. TREE TO BE REMOVED

N

40 20 0 40 80 120

SCALE 1" = 40'

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Civil Engineering, email=tony@jbprogroup.com, c=US Date: 2019.05.29 17:32:47 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE:
DEMOLITION, EROSION + SEDIMENTATION CONTROL PLAN
STA.195+69.53 TO STA. 218+50.00

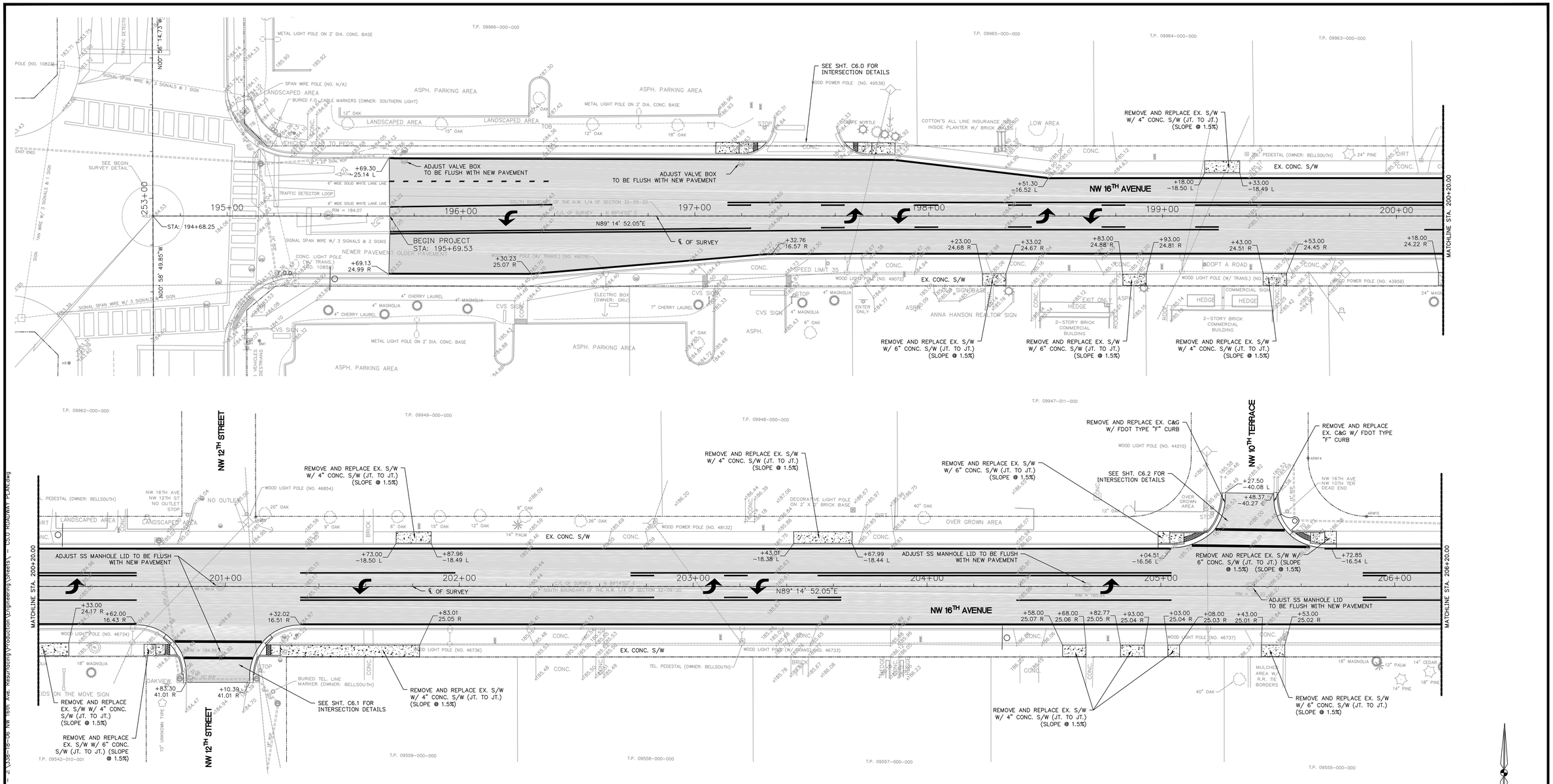
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C4.2



REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=n/a, ou=Administrator, email=tony@jbrprogroup.com, c=US Date: 2019.05.07 12:12:12 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: ROADWAY PLAN
STA. 195+69.53 TO STA. 206+20.00

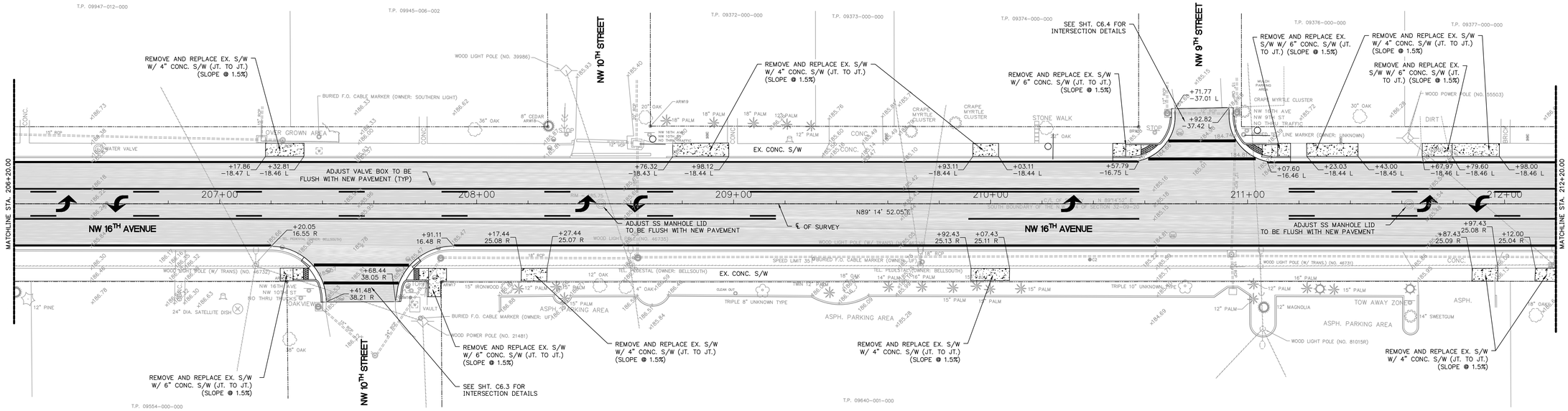
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

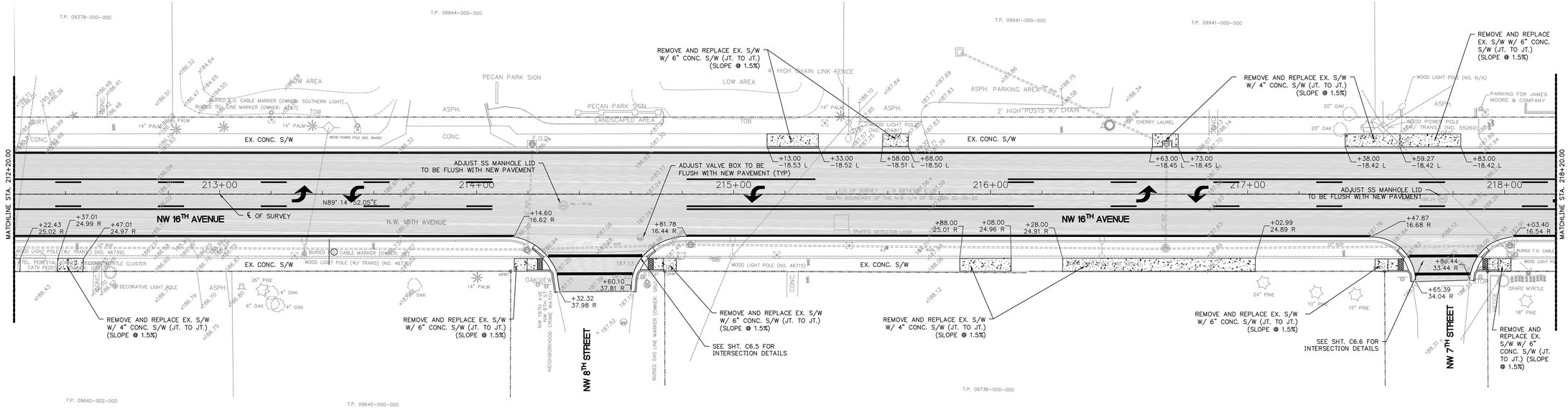
PROJECT: NW 16TH AVENUE RESURFACING

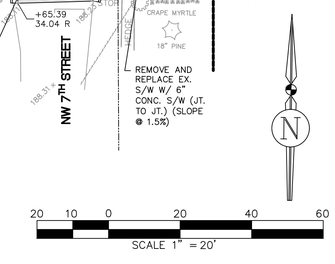
DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C5.0







REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Civil Engineering, email=jay.brown@jbprogroup.com, c=US Date: 2019.05.29 07:34:50 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: ROADWAY PLAN
STA. 206+20.00 TO STA. 218+20.00

DATE: MAY 2019

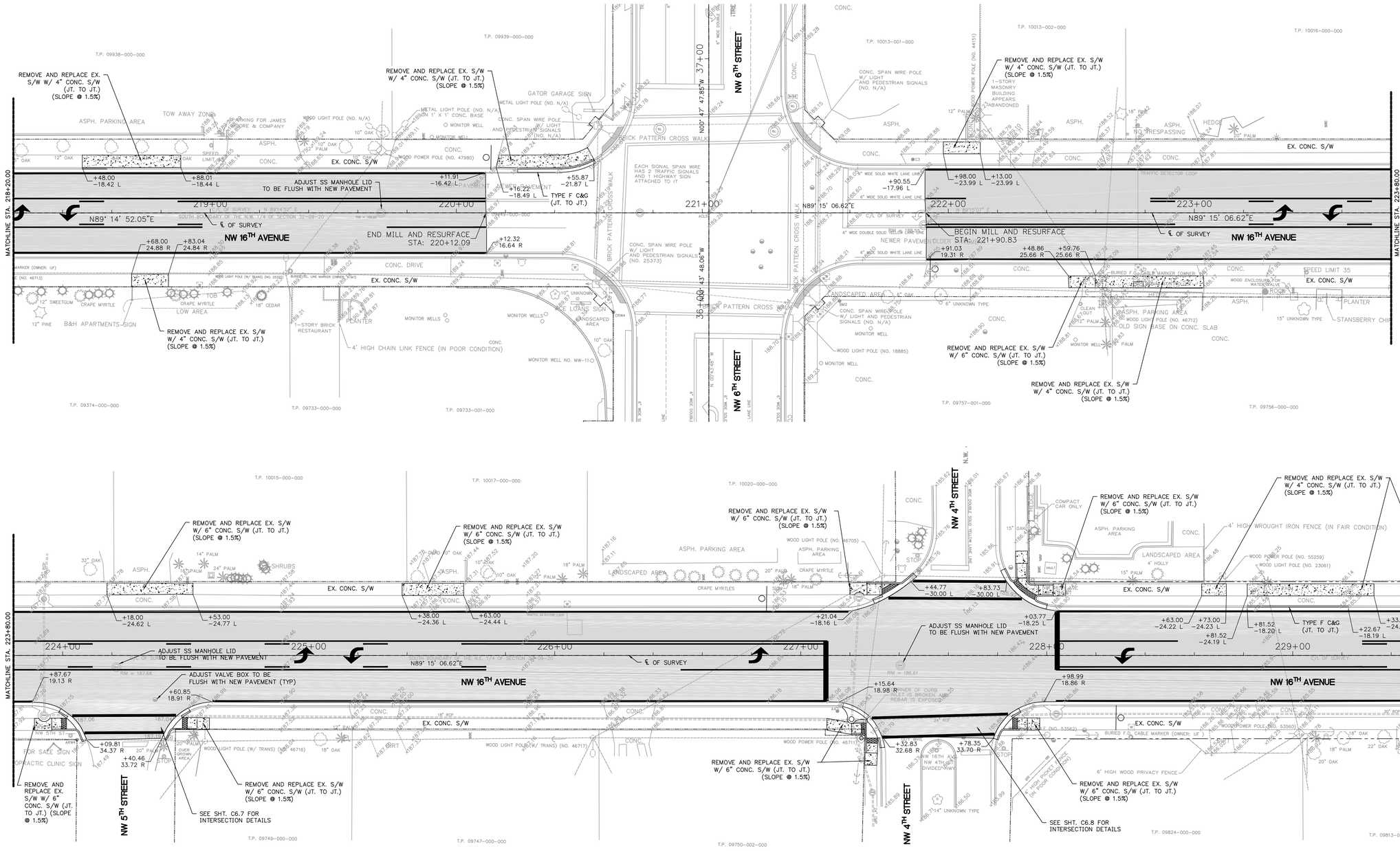
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C5.1

May 29, 2019 – 14:51:19 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C5.0 ROADWAY PLAN.dwg



REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr. PE, o=JBrown Professional Group Inc., ou=Civil Engineering, email=tony.brown@jbprogroup.com, c=US Date: 2019.05.29 17:04:34 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: ROADWAY PLAN
STA. 218+20.00 TO STA. 229+80.00

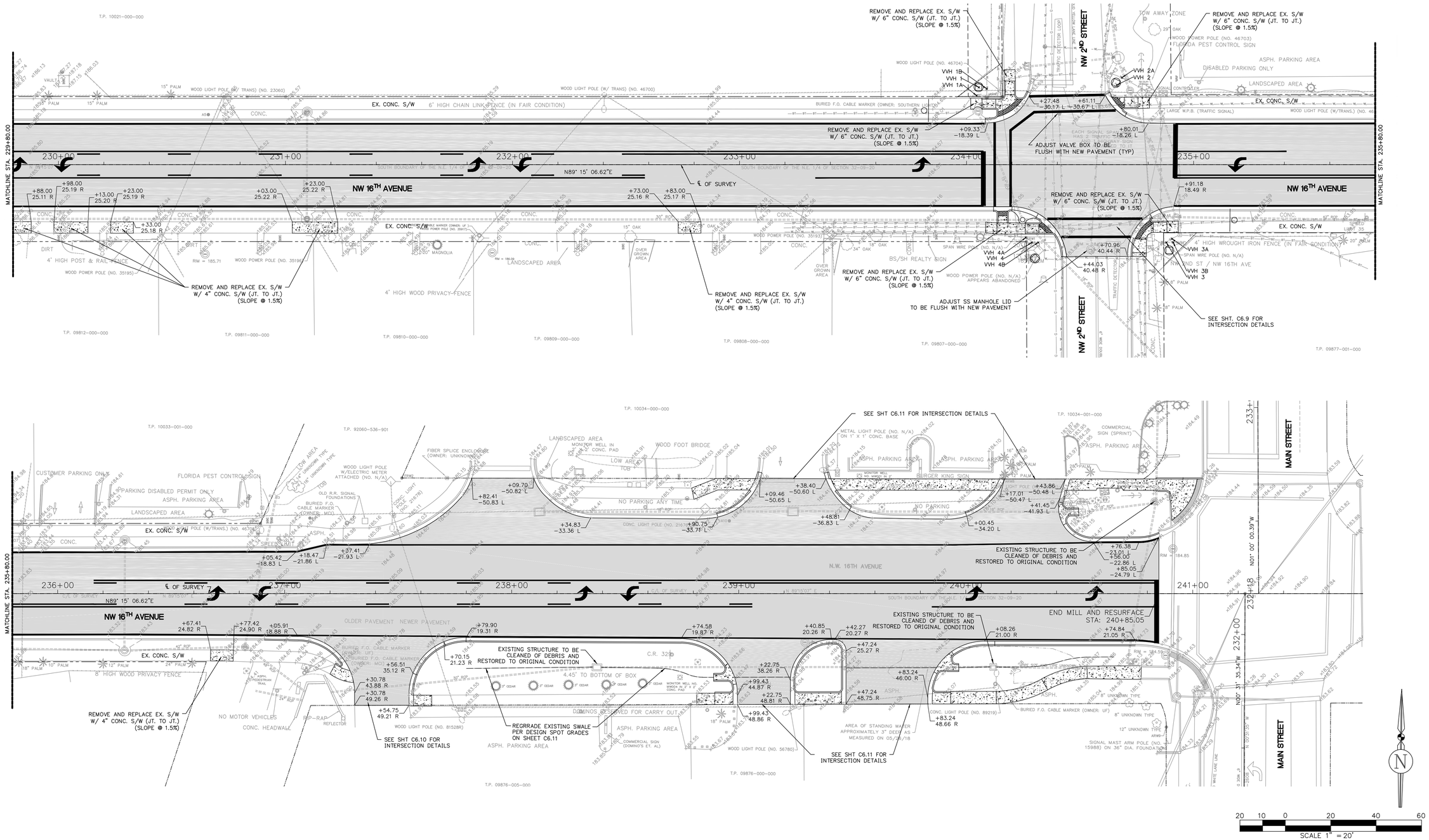
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C5.2



REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JB Professional Group Inc., ou=CIVIL ENGINEER, email=tonybrown@jbprogroup.com, c=US Date: 2019.05.28 07:08:52 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: ROADWAY PLAN

STA. 229+80.00 TO STA. 237+46.46

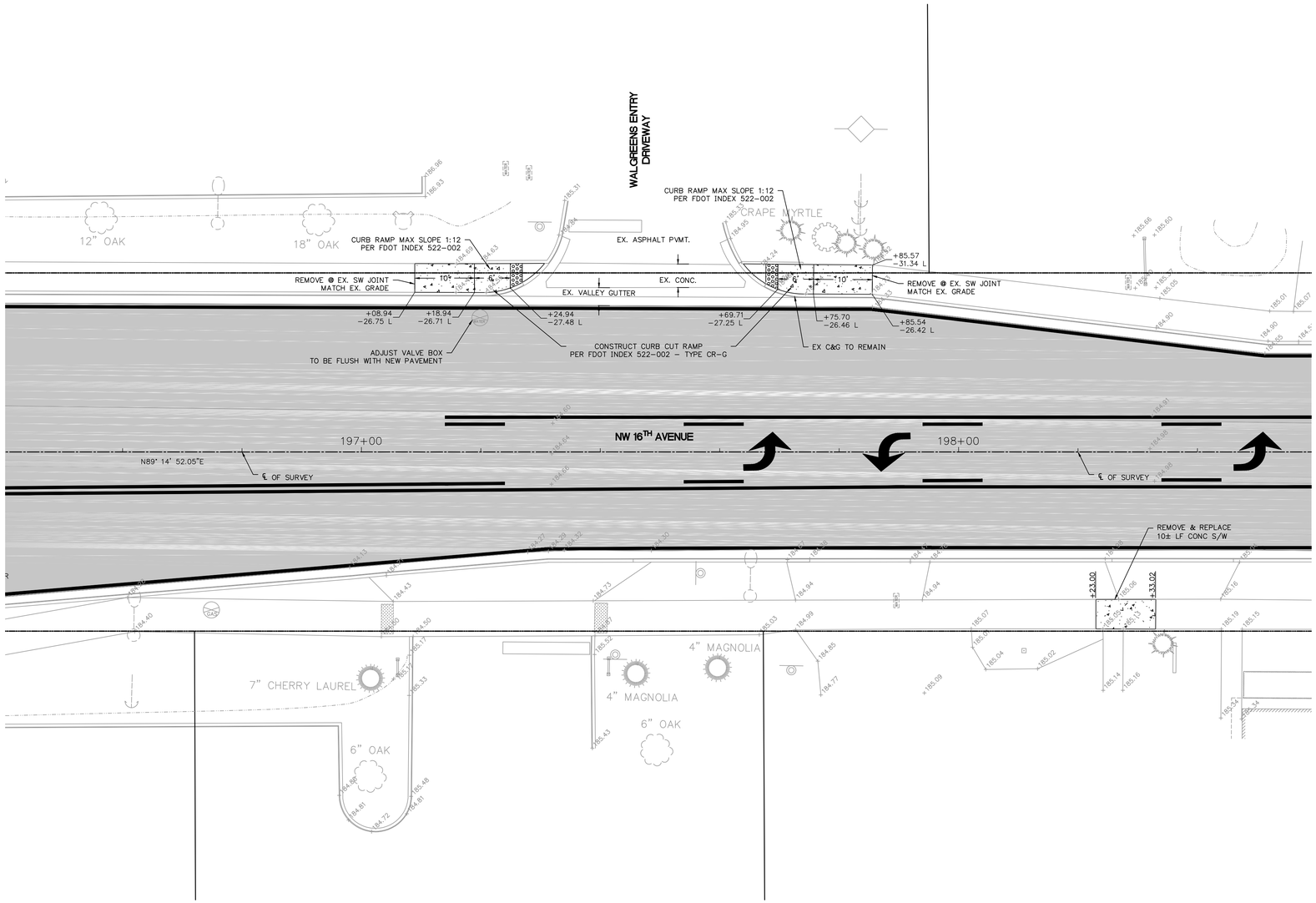
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C5.3



10 5 0 10 20 30

SCALE 1" = 10'

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr. c=US, o=Brown Professional Group Inc., ou=Professional Engineer, 0.9.2342.19200300.100.1.1=A00410C00A0, email=jay.brown@jbprogroup.com Date: 2019.05.29 07:36:54 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS

WALGREEN'S ENTRANCE

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

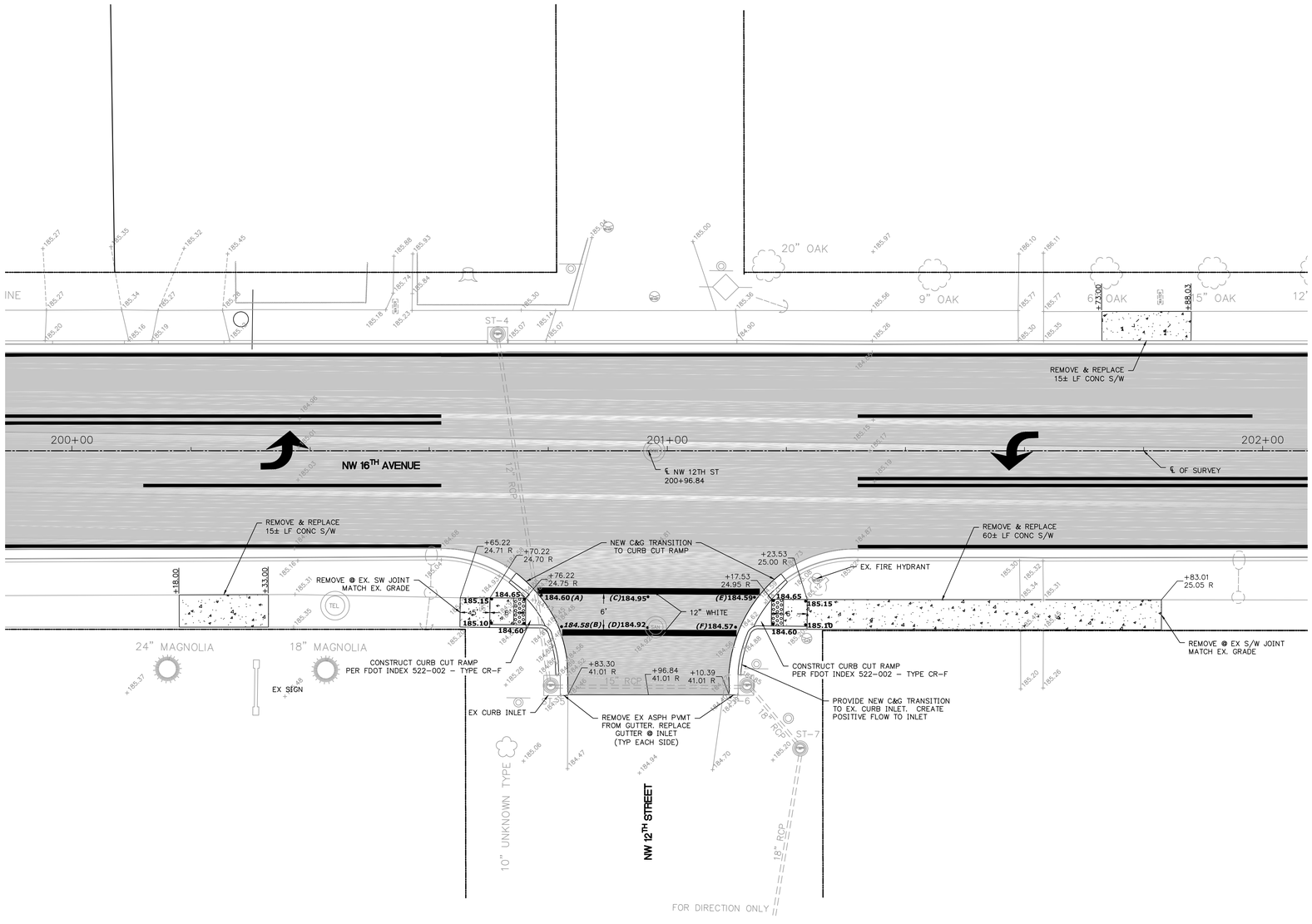
PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C6.0

LABEL	ELEVATION	STATION	OFFSET
A	184.60	200+78.85	24.28 R
B	184.58	200+82.25	29.56 R
C	184.95	200+96.76	24.54 R
D	184.92	200+96.69	29.72 R
E	184.59	201+14.63	24.61 R
F	184.57	201+11.47	29.64 R



ST-4	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.07'	BOTTOM OF BOX ELEV. = 180.73'
ST-5	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 184.85'	BOTTOM OF BOX ELEV. = 180.56'
ST-6	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 184.90'	BOTTOM OF BOX ELEV. = 180.70'
ST-7	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.77'	BOTTOM OF BOX ELEV. = 180.27'

N

10 5 0 10 20 30

SCALE 1" = 10'

May 29, 2019 – 14:35:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr.
DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=AGENTS\BROWNJAC\TSERRECORD, email=jay@jbprogroup.com, c=US
Date: 2019.05.29 17:35:45 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 12TH STREET

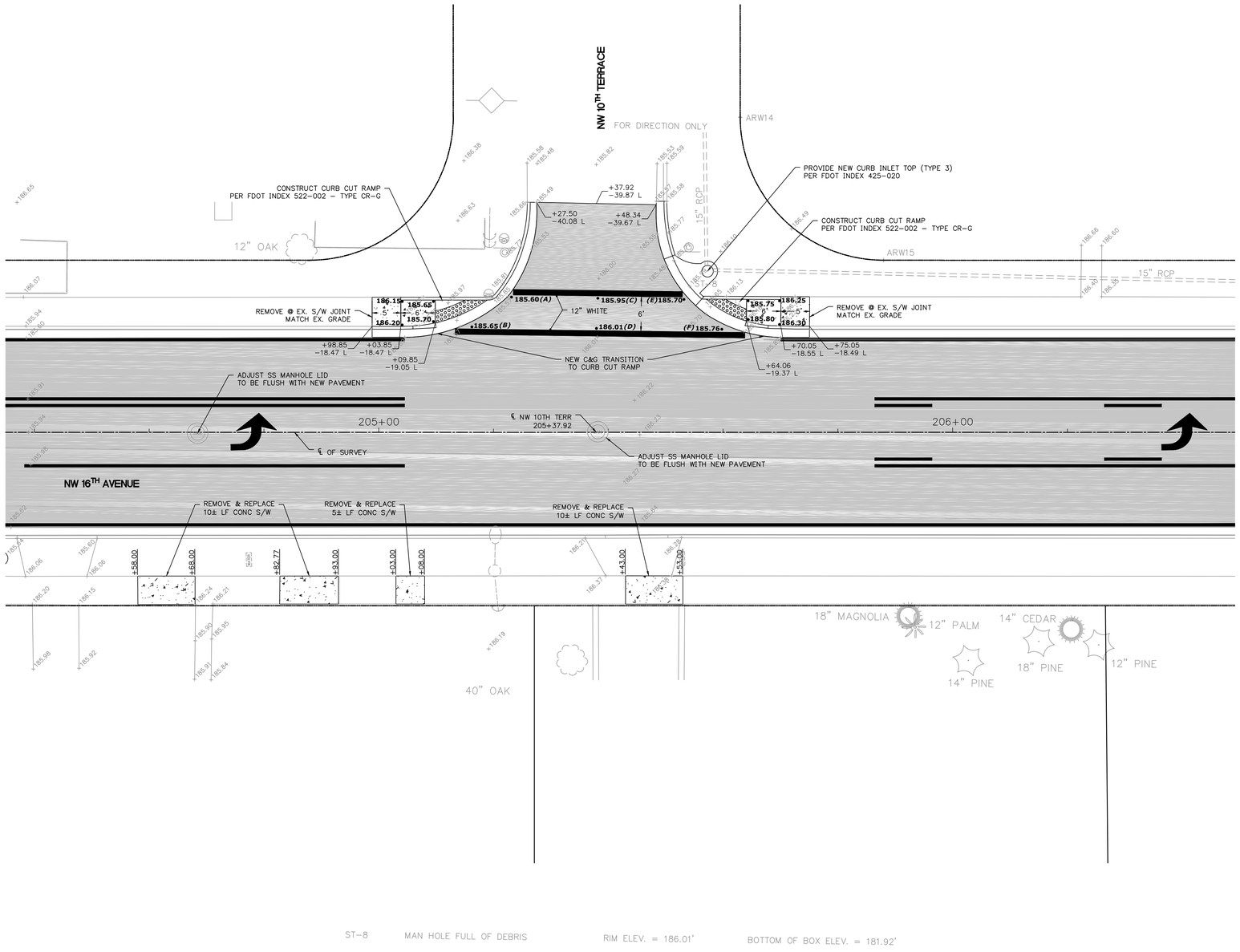
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.1



LABEL	ELEVATION	STATION	OFFSET
A	185.60	205+23.12	23.56 L
B	185.65	205+16.23	18.37 L
C	185.95	205+38.17	23.36 L
D	186.01	205+37.93	18.11 L
E	185.70	205+53.17	23.16 L
F	185.76	205+59.78	17.95 L

N

10 5 0 10 20 30

SCALE 1" = 10'

May 29, 2019 – 14:35:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr. PE, o=JBrown Professional Group Inc., ou=Civil Engineering, email=jay@jbprogroup.com, c=US Date: 2019.05.29 07:36:39 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 10TH TERRACE

DATE: MAY 2019

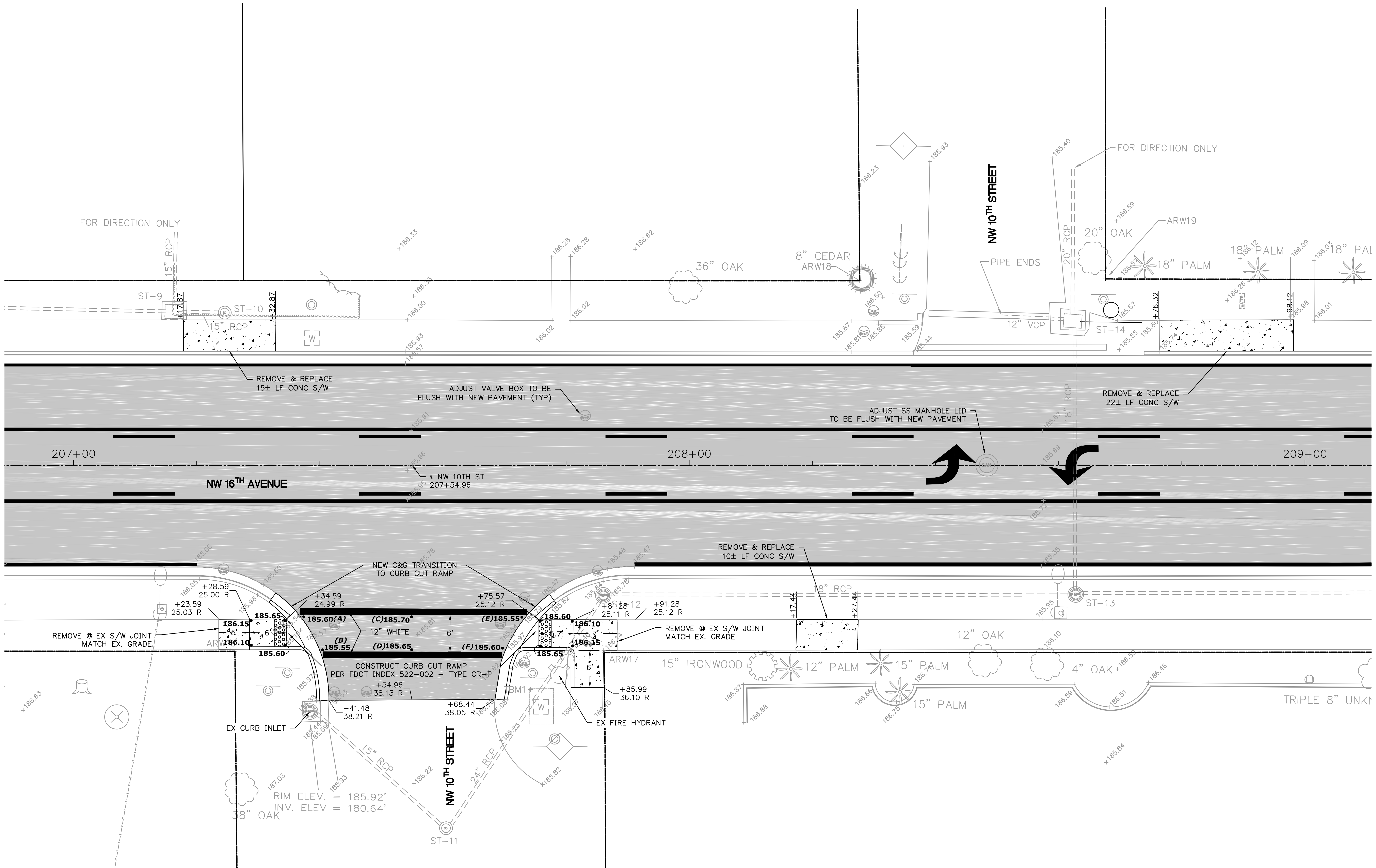
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

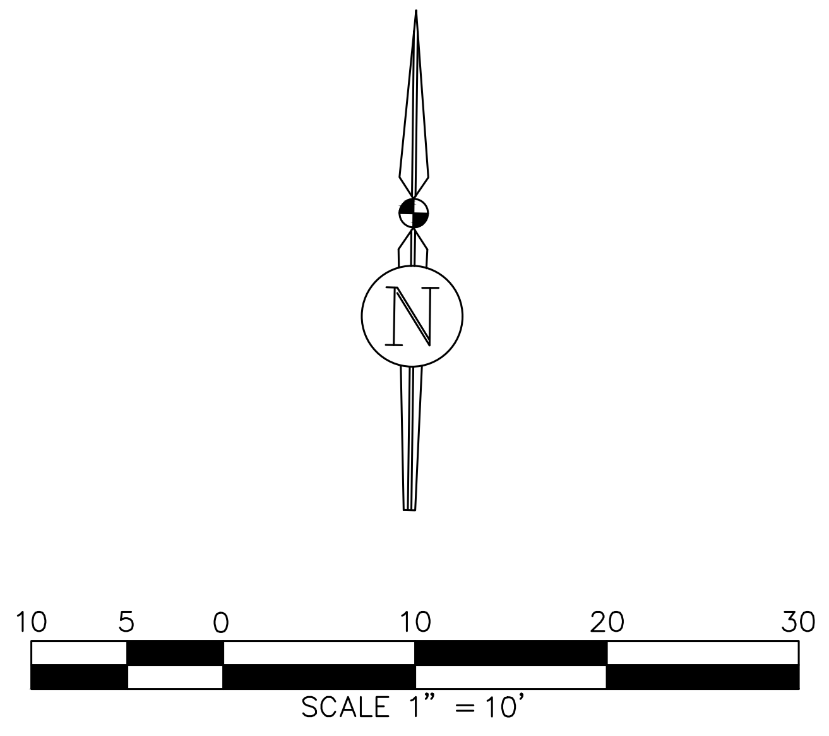
PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.2

LABEL	ELEVATION	STATION	OFFSET
A	185.60	207+37.36	24.66 R
B	185.55	207+40.42	30.00 R
C	185.70	207+54.90	24.63 R
D	185.65	207+54.91	29.99 R
E	185.55	207+72.81	24.70 R
F	185.60	207+69.69	29.72 R



ST-9	STRUCTURE FULL OF DEBRIS	GRATE ELEV. = 186.19'	BOTTOM OF BOX ELEV. = 181.85'
ST-10	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 186.29'	BOTTOM OF BOX ELEV. = 180.98'
ST-11	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 186.33'	BOTTOM OF BOX ELEV. = 179.70'
ST-12	RIM ELEV. = 185.57'	INV. ELEV 24" RCP = 180.19'	INV. ELEV. 18" RCP = 180.25'
ST-13	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.61'	BOTTOM OF BOX ELEV. = 180.66'
ST-14	STRUCTURE FULL OF DEBRIS	GRATE ELEV. = 185.34'	BOTTOM OF BOX ELEV. = 180.91'



May 29, 2019 – 14:55:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.
Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., c=US, o=JBrown Professional Group Inc, ou=A01427E000001685C2AC7330000CD68, email=jay.brown@jbprogroup.com Date: 2019.05.29 17:36:51 -04'00'

ENGINEER OF RECORD:	A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE:
INTERSECTION DETAILS
NW 10TH STREET

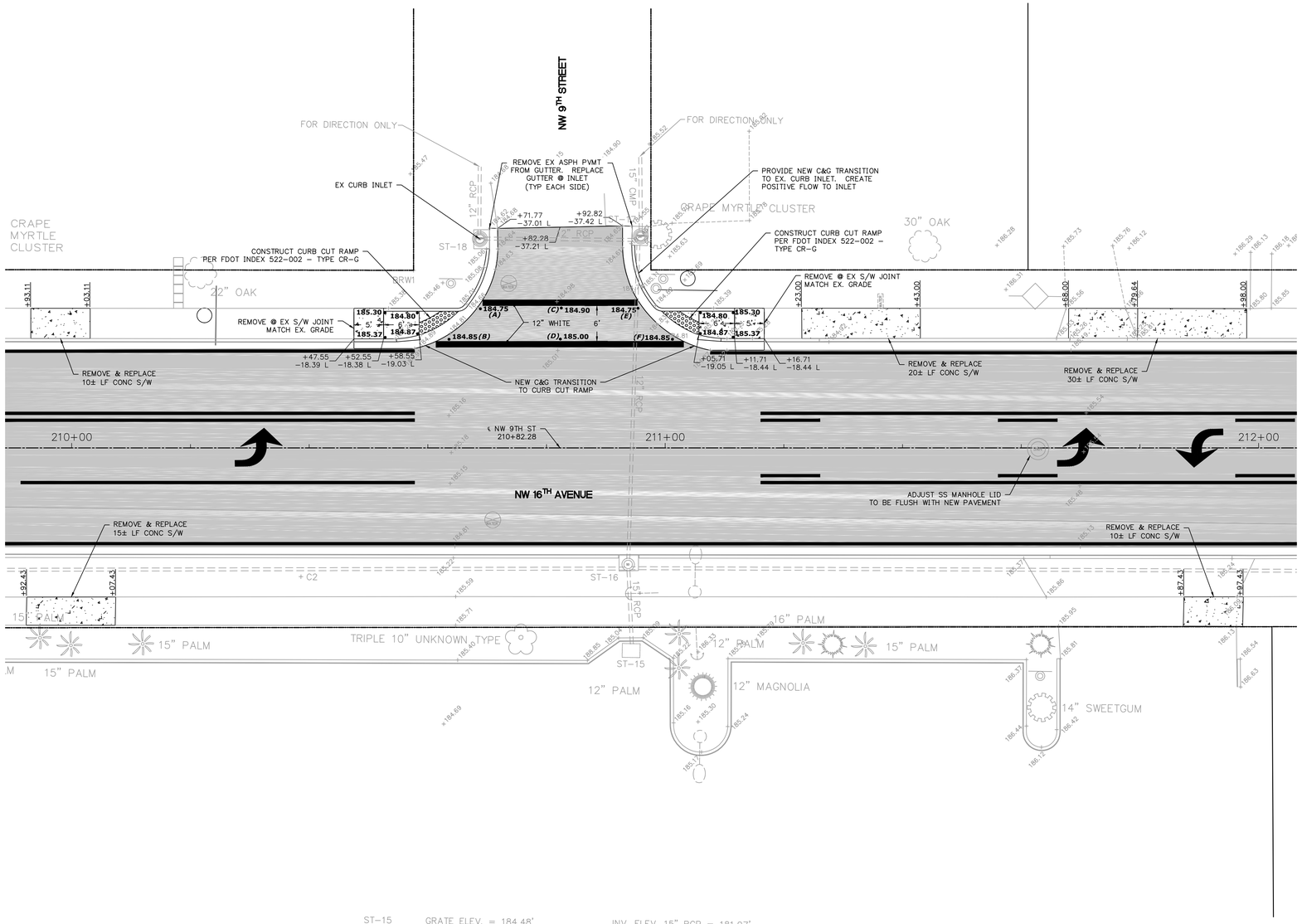
CLIENT:
ALACHUA COUNTY
PUBLIC WORKS DEPT.

PROJECT:
NW 16TH AVENUE
RESURFACING

DATE:
MAY 2019

PROJECT NO:
338-18-06

SHEET NO:
C6.3



LABEL	ELEVATION	STATION	OFFSET
A	184.75	210+68.87	23.45 L
B	184.85	210+63.58	18.31 L
C	184.90	210+82.50	23.58 L
D	185.00	210+82.34	18.35 L
E	184.75	210+95.42	23.53 L
F	184.85	211+01.23	18.31 L

ST-15	GRATE ELEV. = 184.48'	INV. ELEV. 15" RCP = 181.97'	
ST-16	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.15'	BOTTOM OF BOX ELEV. = 181.33'
ST-17	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.05'	BOTTOM OF BOX ELEV. = 182.27'
ST-18	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 185.07'	BOTTOM OF BOX ELEV. = 182.28'

N

10 5 0 10 20 30

SCALE 1" = 10'

May 29, 2019 – 14:35:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Streets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

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ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 9TH STREET

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

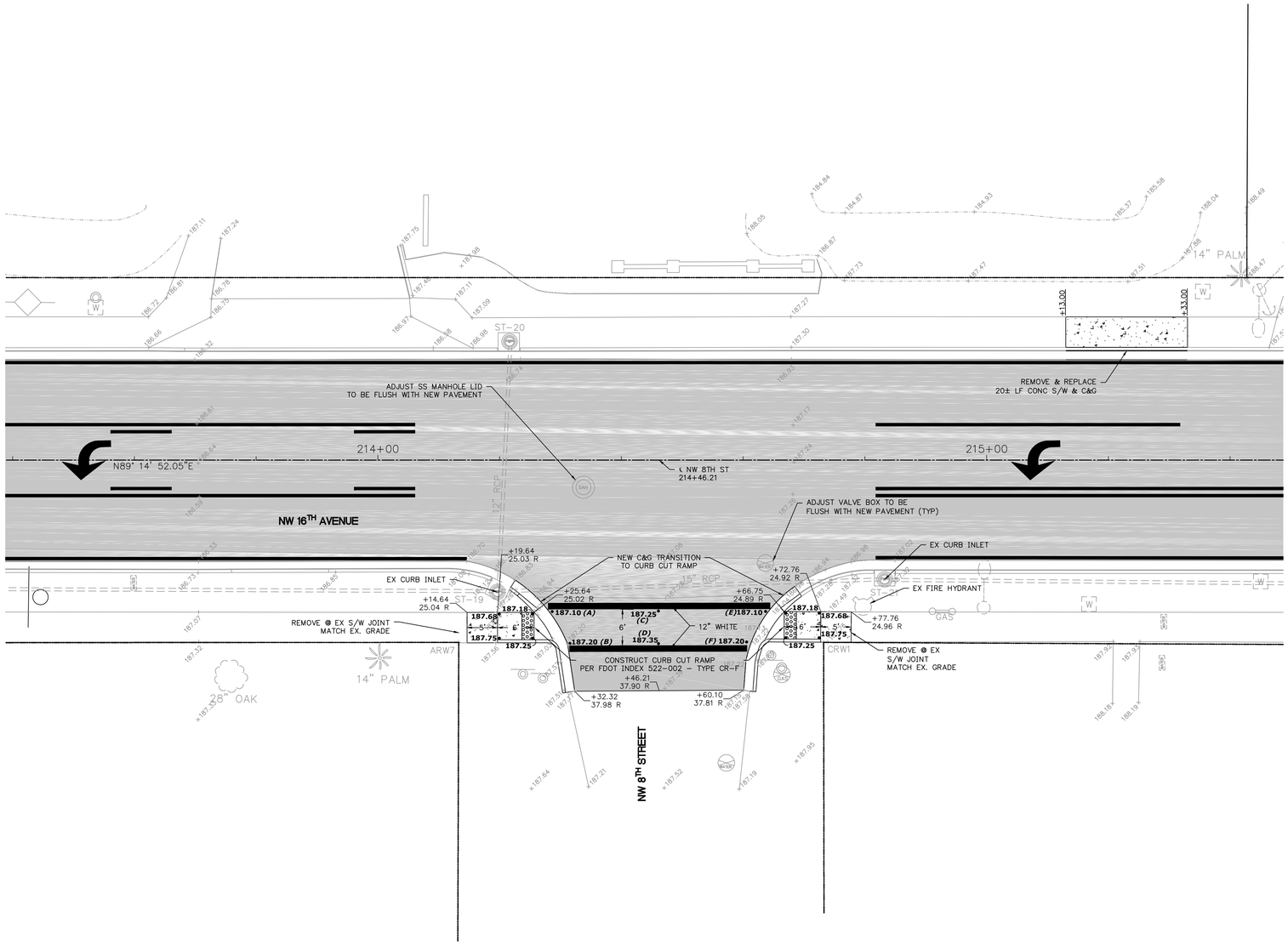
PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

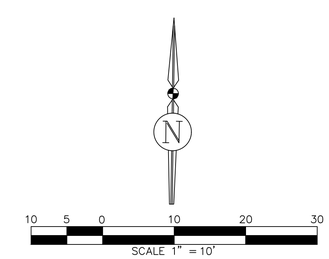
PROJECT NO: 338-18-06

SHEET NO: C6.4

LABEL	ELEVATION	STATION	OFFSET
A	187.10	214+28.63	24.89 R
B	187.20	214+31.54	30.12 R
C	187.25	214+46.08	24.80 R
D	187.35	214+46.09	30.16 R
E	187.10	214+63.68	24.87 R
F	187.20	214+60.56	29.89 R



ST-19	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 187.25'	BOTTOM OF BOX ELEV. = 182.48'
ST-20	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 187.04'	BOTTOM OF BOX ELEV. = 182.81'
ST-21	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 187.32'	BOTTOM OF BOX ELEV. = 182.95'



REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JPI, ou=ANTHONYBROWN@JBROWNCORP.COM, email=ANTHONYBROWN@JBROWNCORP.COM, c=US Date: 2019.05.29 17:37:40 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 8TH STREET

DATE: MAY 2019

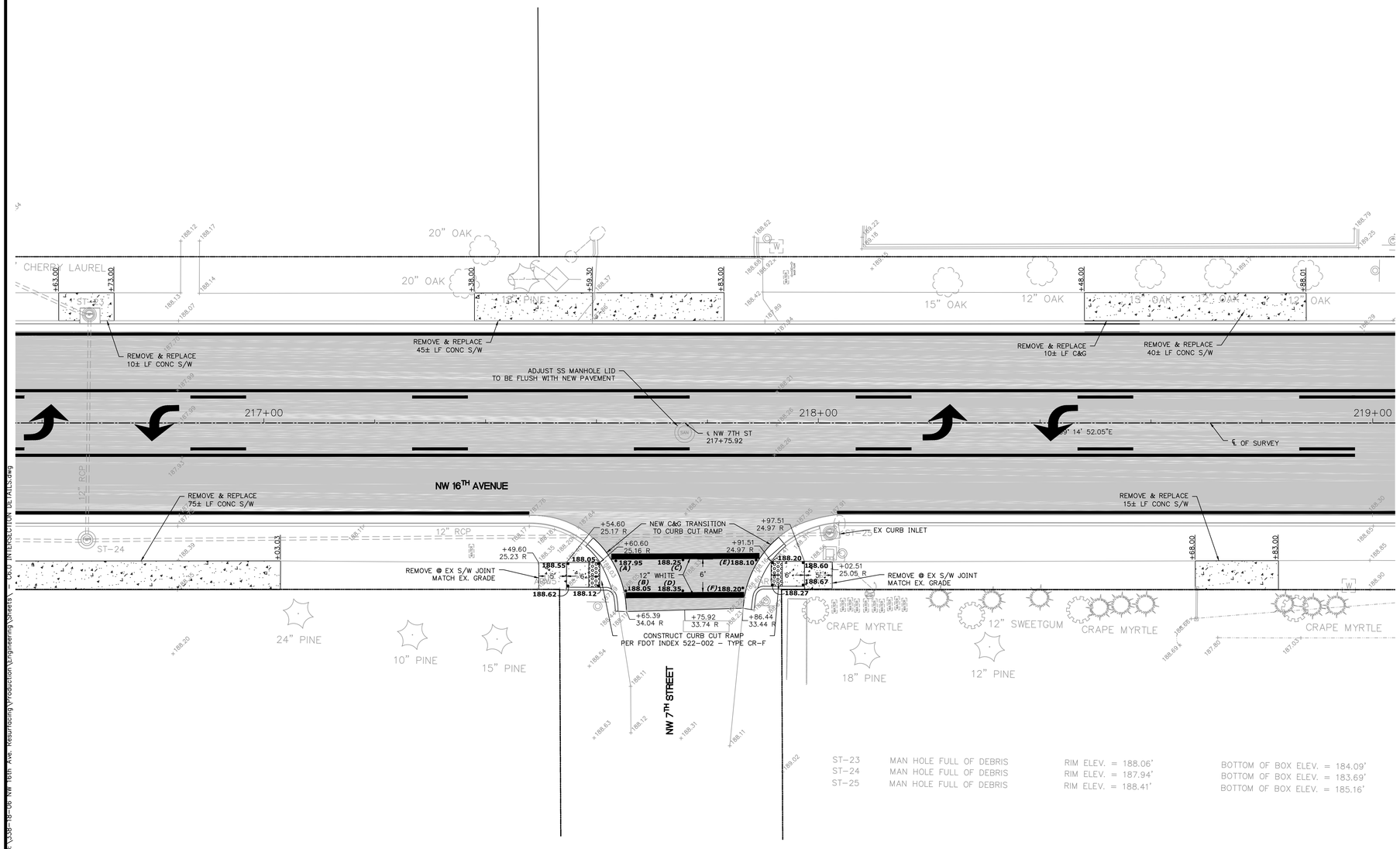
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

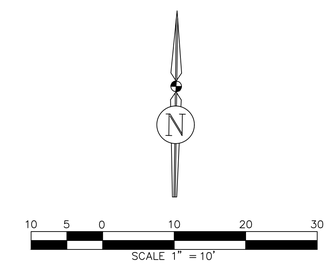
PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.5

LABEL	ELEVATION	STATION	OFFSET
A	187.95	217+63.49	24.88 R
B	188.05	217+65.29	30.29 R
C	188.25	217+75.59	24.72 R
D	188.35	217+75.56	30.27 R
E	188.10	217+88.80	24.73 R
F	188.20	217+86.39	29.77 R



ST-23	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 188.06'	BOTTOM OF BOX ELEV. = 184.09'
ST-24	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 187.94'	BOTTOM OF BOX ELEV. = 183.69'
ST-25	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 188.41'	BOTTOM OF BOX ELEV. = 185.16'



May 29, 2019 – 14:30:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Streets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Civil Engineer, email=jay.brown@jbprogroup.com, c=US Date: 2019.05.29 07:38:56 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 7TH STREET

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

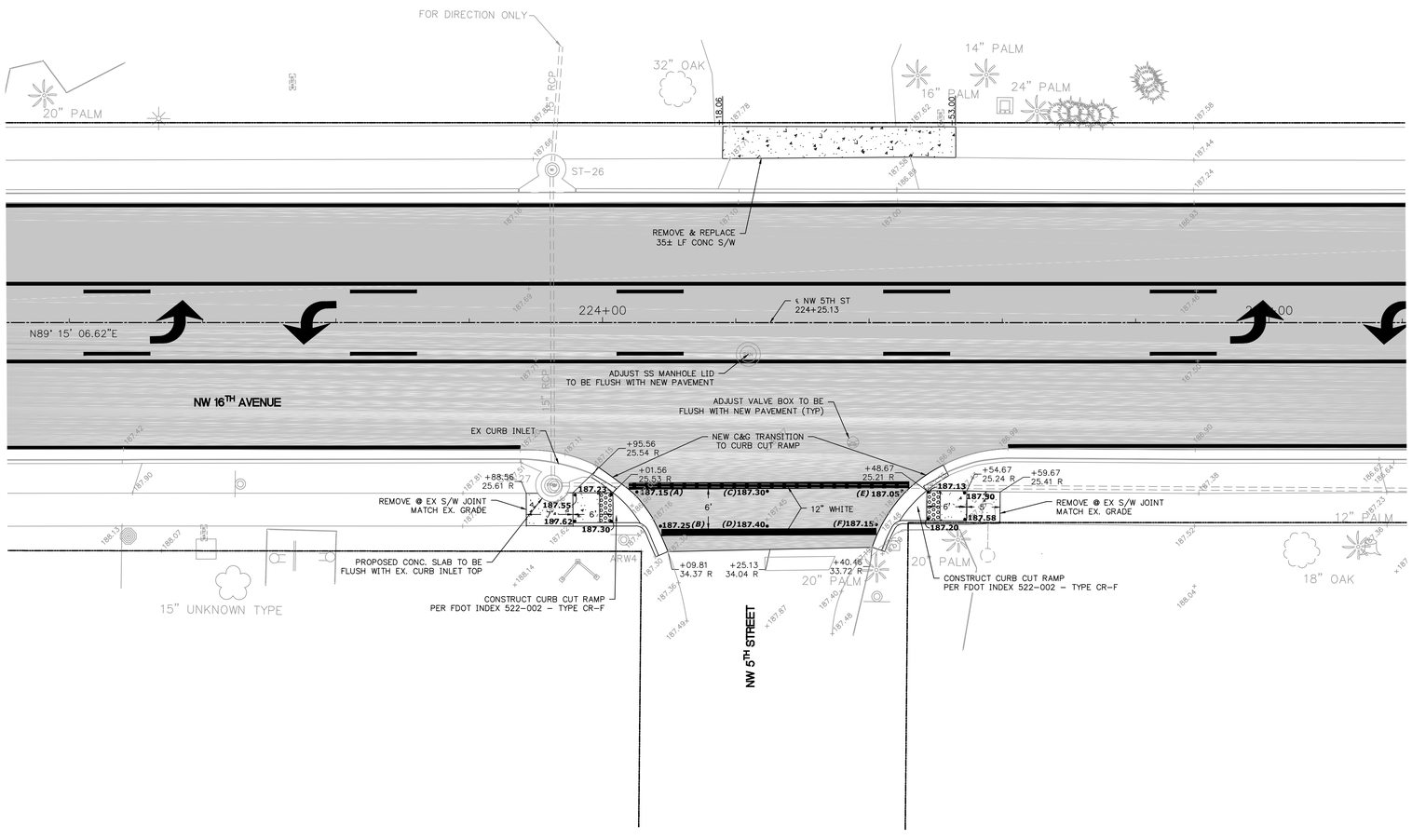
PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C6.6

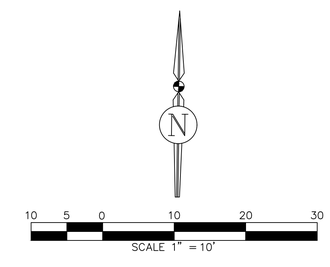
LABEL	ELEVATION	STATION	OFFSET
A	187.15	224+05.16	25.14 R
B	187.25	224+08.70	30.54 R
C	187.30	224+24.73	25.29 R
D	187.40	224+24.71	30.54 R
E	187.05	224+44.93	25.25 R
F	187.15	224+41.08	30.30 R



ST-26 RIM ELEV. = 187.65'
ST-27 MAN HOLE FULL OF DEBRIS

INV. ELEV. 15" RCP (N) = 184.15'
RIM ELEV. = 187.63'

INV. ELEV. 15" RCP (S) = 182.42'
BOTTOM OF BOX ELEV. = 182.36'



May 29, 2019 - 14:35:43 - Logan - J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ - C6.0 INTERSECTION DETAILS.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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SHEET TITLE: INTERSECTION DETAILS
NW 5TH STREET

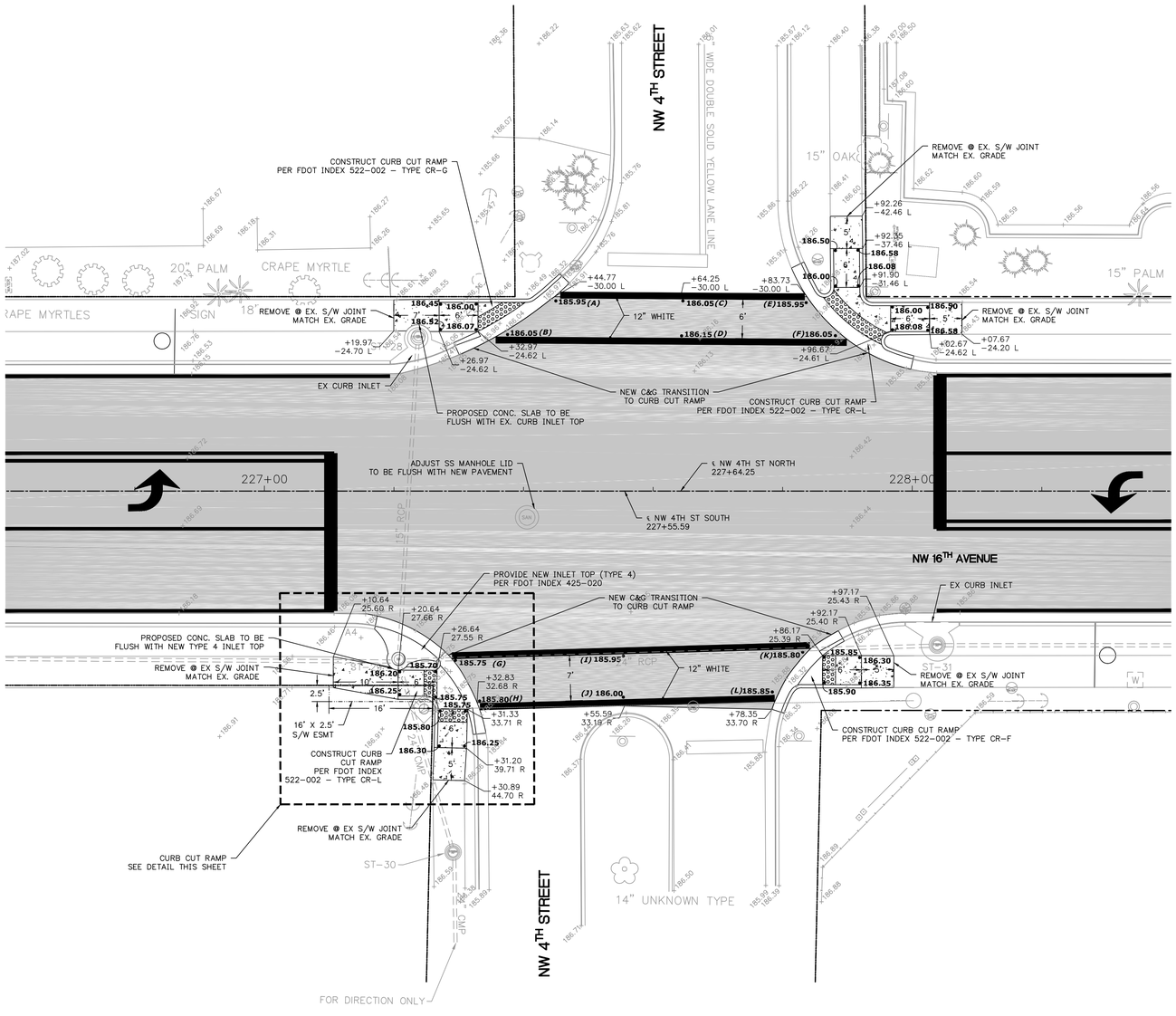
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C6.7

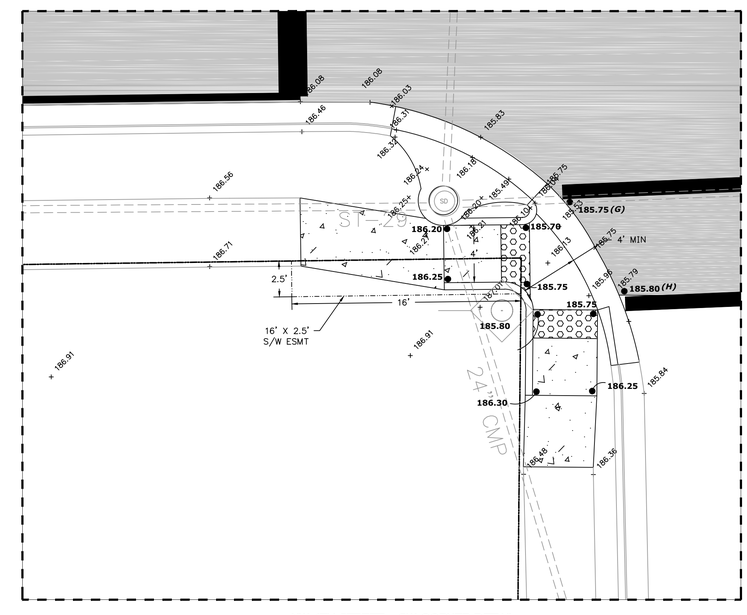


LABEL	ELEVATION	STATION	OFFSET
A	185.95	227+44.98	29.35 L
B	186.05	227+37.54	24.16 L
C	186.05	227+64.60	29.35 L
D	186.15	227+64.39	23.96 L
E	185.95	227+83.62	29.08 L
F	186.05	227+88.14	23.98 L
G	185.75	227+29.98	26.43 R
H	185.80	227+33.26	32.32 R
I	185.95	227+55.40	25.46 R
J	186.00	227+55.41	31.83 R
K	185.80	227+83.09	24.87 R
L	185.85	227+78.40	31.02 R

ST-28 RIM ELEV. = 186.53'
ST-29 MAN HOLE FULL OF DEBRIS
ST-30 MAN HOLE FULL OF DEBRIS
ST-31 MAN HOLE FULL OF DEBRIS

INV. ELEV. 15" RCP = 180.74'
RIM ELEV. = 186.27'
RIM ELEV. = 186.51'
RIM ELEV. = 186.37'

BOTTOM OF BOX ELEV. = 180.49'
BOTTOM OF BOX ELEV. = 181.29'
BOTTOM OF BOX ELEV. = 180.18'



NW 4TH STREET - SW CORNER DETAIL
1" = 5'

SCALE 1" = 10'

May 29, 2019 – 14:55:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.0 INTERSECTION DETAILS.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Civil Engineering, email=tony.brown@jbprogroup.com, c=US Date: 2019.05.29 07:56:14 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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E-MAIL: contact@jbprogroup.com

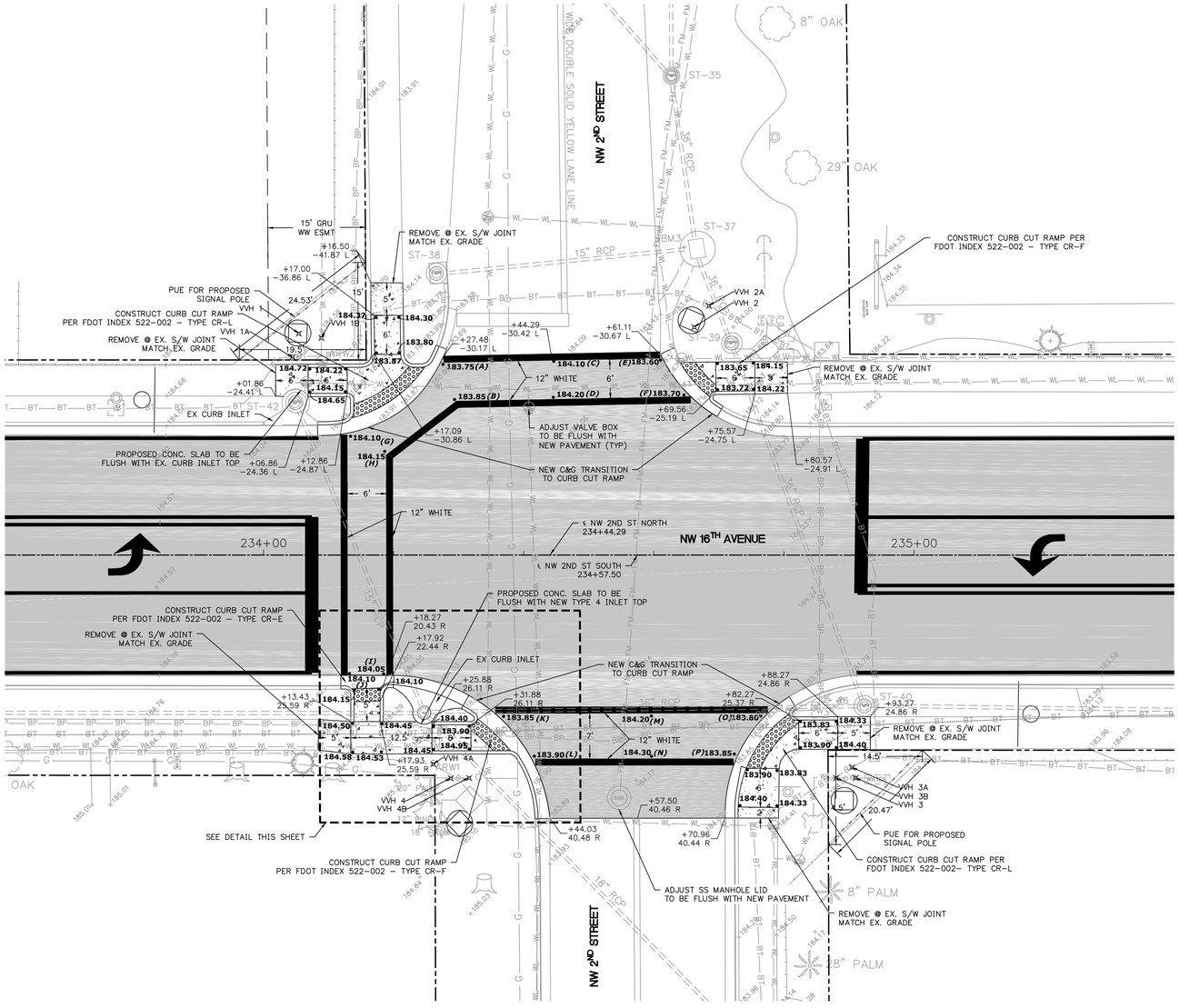
SHEET TITLE: INTERSECTION DETAILS
NW 4TH STREET

DATE: MAY 2019
PROJECT NO: 338-18-06

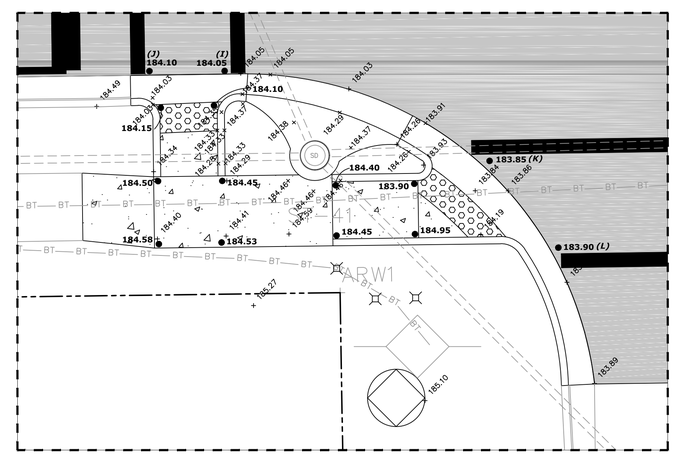
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.8



LABEL	ELEVATION	STATION	OFFSET
A	183.75	234+27.59	29.33 L
B	183.85	234+29.36	23.93 L
C	184.10	234+44.62	29.79 L
D	184.20	234+44.55	24.27 L
E	183.60	234+61.02	29.99 L
F	183.70	234+64.63	24.62 L
G	184.10	234+13.37	18.26 L
H	184.15	234+18.62	15.49 L
I	184.05	234+13.22	18.21 R
J	184.10	234+18.48	18.27 R
K	183.85	234+36.91	24.80 R
L	183.90	234+41.63	30.93 R
M	184.20	234+59.63	24.75 R
N	184.30	234+59.65	30.94 R
O	183.80	234+76.42	24.74 R
P	183.85	234+72.37	30.59 R



NW 2ND STREET – SW CORNER DETAIL
1" = 5'

ST-35	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 183.22'	BOTTOM OF BOX ELEV. = 178.01'
ST-37	STRUCTURE FULL OF DEBRIS	GRATE ELEV. = 182.71'	BOTTOM OF BOX ELEV. = 178.03'
ST-38	RIM ELEV. = 183.76'	INV. ELEV. 15" RCP = 179.98'	
ST-39	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 183.88'	BOTTOM OF BOX ELEV. = 178.06'
ST-40	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 184.16'	BOTTOM OF BOX ELEV. = 177.95'
ST-41	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 184.43'	BOTTOM OF BOX ELEV. = 178.34'
ST-42	RIM ELEV. = 184.56'	INV. ELEV. 15" RCP = 180.99'	

10 5 0 10 20 30
SCALE 1" = 10'

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Professional Engineer, email=jay.brown@jbprogroup.com, Date: 2019.05.29 17:39:37 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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ANTHONY J. BROWN JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
NW 2ND STREET

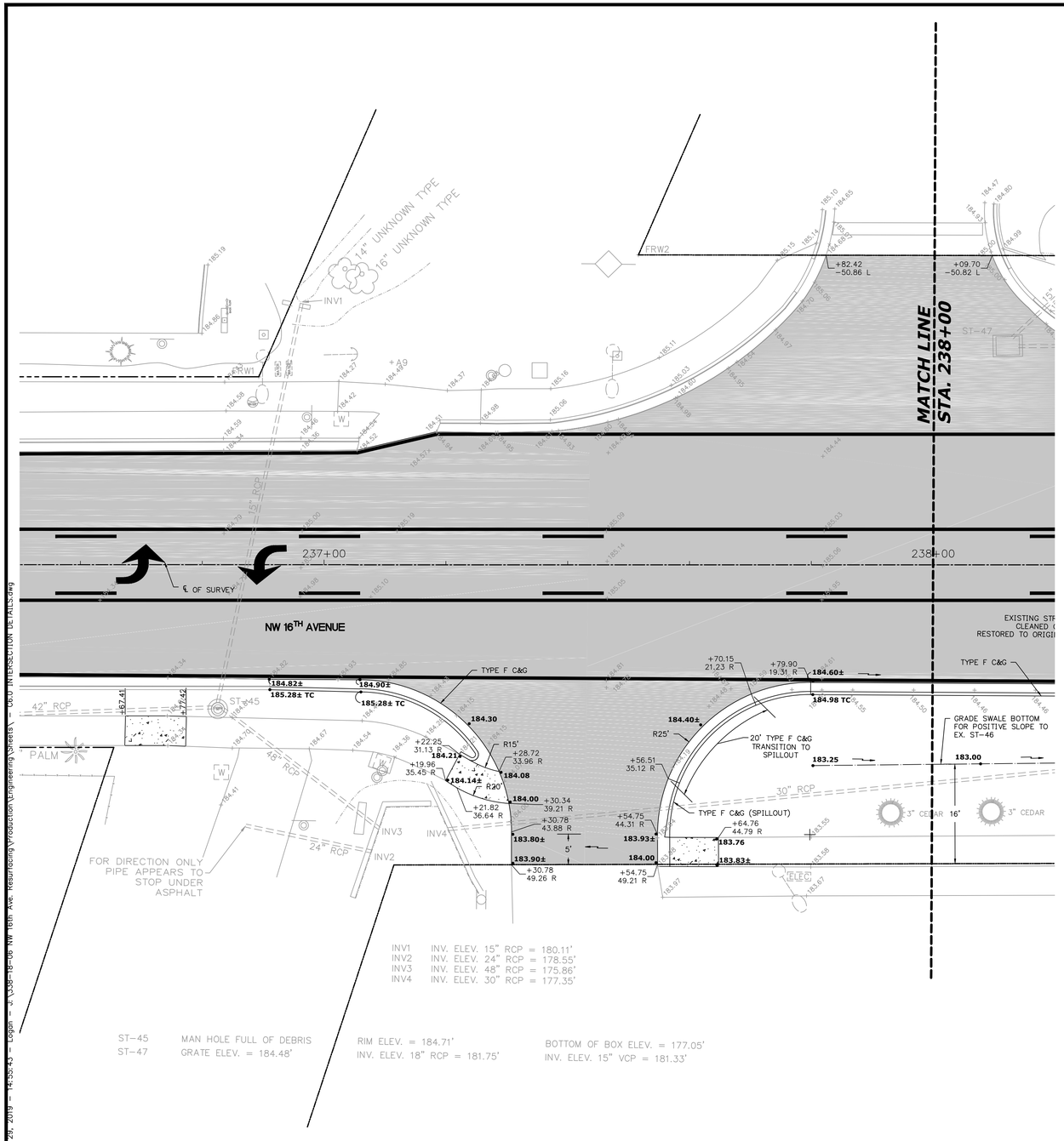
DATE: MAY 2019
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.9

May 29, 2019 – 14:35:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.0 INTERSECTION DETAILS.dwg



LEGEND:

- ×154.27 EX. SPOT ELEVATIONS (PER 06/12/2018 LOCHRAINE SURVEY)
- ×154.27 EX. SPOT ELEVATIONS (PER 11/14/2018 JBPRO ADD'L SURVEY)
- • 185.11 PROPOSED SPOT ELEVATION
- • 185.11 TC PROPOSED SPOT ELEVATION @ TOP OF CURB

N

10 5 0 10 20 30

SCALE 1" = 10'

May 29, 2019 – 14:55:43 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C6.10 INTERSECTION DETAILS.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=Professional Engineer, c=US, email=jay.brown@jbprogroup.com Date: 2019.05.29 17:40:15 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
STA. 236+50 TO 238+20

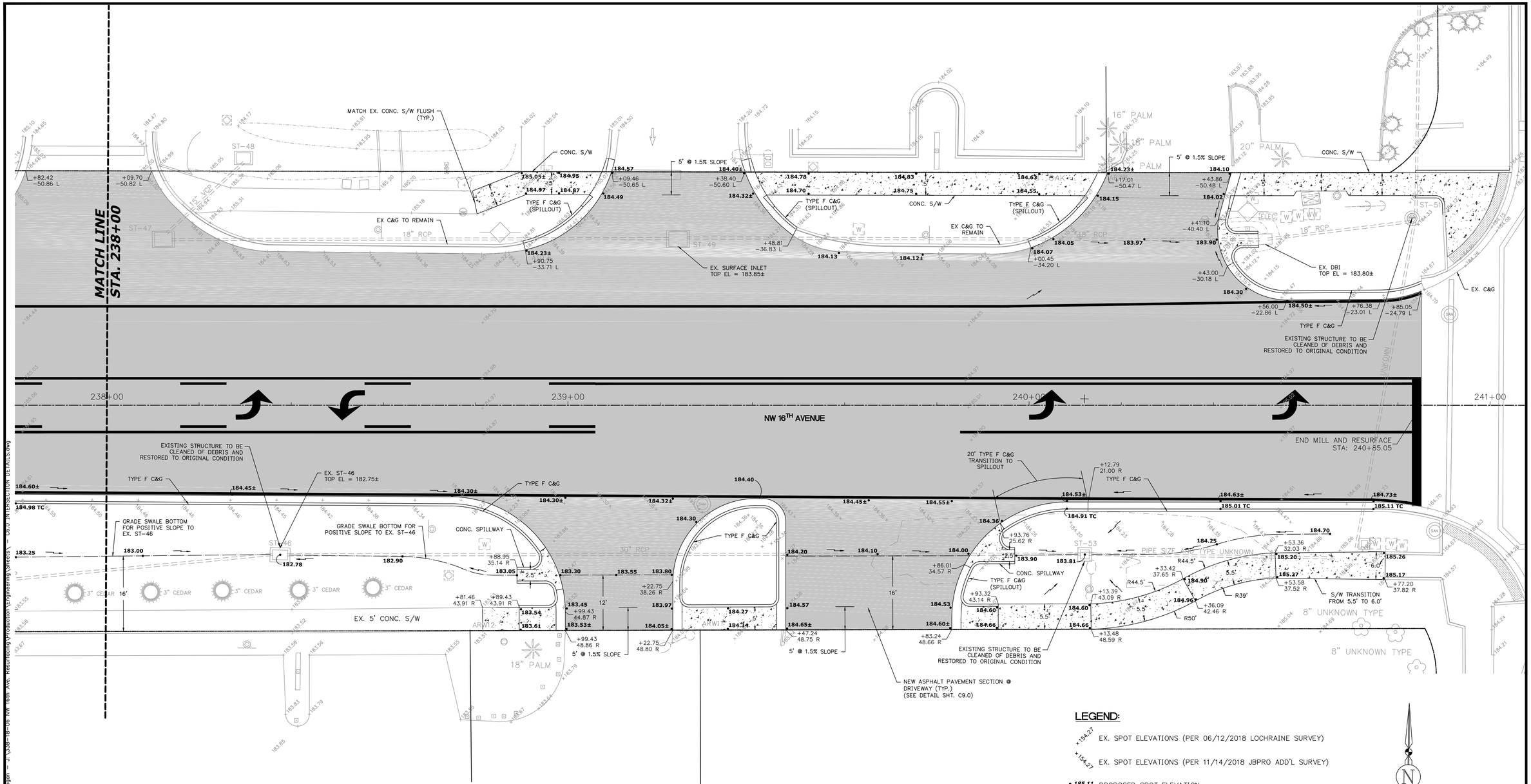
DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.10



ST-46	STRUCTURE FULL OF DEBRIS	GRATE ELEV. = 182.78'	BOTTOM OF BOX ELEV. = 178.32'
ST-47	GRATE ELEV. = 184.48'	INV. ELEV. 18" RCP = 181.75'	INV. ELEV. 15" VCP = 181.33'
ST-48	GRATE ELEV. = 184.83'	INV. ELEV. 15" VCP = 181.69'	
ST-49	GRATE ELEV. = 183.86'	INV. ELEV. 18" RCP (W) = 181.08'	INV. ELEV. 18" RCP (E) = 181.54'
ST-50	GRATE ELEV. = 183.22'	INV. ELEV. 18" RCP (W) = 180.97'	INV. ELEV. 15" RCP (E) = 180.92'
ST-51	MAN HOLE FULL OF DEBRIS	RIM ELEV. = 184.31'	BOTTOM OF BOX ELEV. = 178.96'
ST-52	GRATE ELEV. = 183.28'	INV. ELEV. 30" RCP = 179.02"	
ST-53	GRATE ELEV. = 183.81'	STRUCTURE FILLED TO THE TOP WITH DIRT	

LEGEND:

- x154.27 EX. SPOT ELEVATIONS (PER 06/12/2018 LOCHRAINE SURVEY)
- x154.27 EX. SPOT ELEVATIONS (PER 11/14/2018 JBPRO ADD'L SURVEY)
- • 185.11 PROPOSED SPOT ELEVATION
- • 185.11 TC PROPOSED SPOT ELEVATION @ TOP OF CURB

N

10 5 0 10 20 30
SCALE 1" = 10'

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBPROFESSIONAL GROUP INC, ou=ENGINEERING, email=jbpro@jbprogroup.com, c=US Date: 2019.05.31 12:45:35 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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ANTHONY J. BROWN, JR. LICENSE No. 43879 STATE OF FLORIDA PROFESSIONAL ENGINEER

JBrown Professional Group Inc
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
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3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: INTERSECTION DETAILS
N. MAIN STREET - STA. 238+00 TO 241+00

DATE: MAY 2019
PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C6.11

JBROWN PROFESSIONAL GROUP, INC.

DATE OF SURVEY : 7/12/18
SURVEY MADE BY : GSE ENGINEERING & CONSULTING, INC.
SUBMITTED BY : JASON E. GOWLAND, P.E.

PROJECT NAME : NW 16th AVENUE
GSE PROJECT NUMBER : 13673
FINANCIAL PROJECT ID : N/A

DISTRICT : N/A
ROAD NO : N/A
COUNTY : ALACHUA

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. :263+00 SURVEY ENDS STA. : 223+00
REFERENCE : N/A

MOISTURE CONTENT			SIEVE ANALYSIS RESULTS % PASS					ATTERBERG LIMITS (%)					
STRATUM NO.	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	No. 4 SIEVE	No. 10 SIEVE	No. 40 SIEVE	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION
1	1	9.6	1	-	-	-	10	-	-	-	-	A-3	TAN, LIGHT GRAY TO TAN, BROWN, GRAY, LIGHT GRAY, SAND WITH SILT
2	2	11-13	2	-	-	-	11-12	-	-	-	-	A-2-4	BROWN, GRAYISH BROWN, DARK BROWN, WHITE, SAND WITH SILT, SILTY SAND, SILTY SAND WITH CLAY

EMBANKMENT AND SUBGRADE MATERIAL AND EXCAVATION FOR STRUCTURES AND PIPE
STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING

NOTES

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED.
2. GROUNDWATER LEVEL SHOWN AS ▼ WHERE ENCOUNTERED. GROUNDWATER NOT ENCOUNTERED AS "GNE".
3. STRATA 1 AND 2 SHALL BE TREATED AS SELECT (S) IN ACCORDANCE WITH INDEX 120-001.
4. STRATUM 2 MAY REMAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
5. RE-USE AND REMOVAL OF THESE MATERIALS SHALL BE IN ACCORDANCE WITH INDEX 120-001 AND 120-002, UNLESS OTHERWISE NOTED IN THE PLANS.

LEGEND

(A-3)	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
▼	GROUNDWATER TABLE
GNE	GROUNDWATER NOT ENCOUNTERED
B.T.	BORING TERMINATED
NP	NOT PLASTIC

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

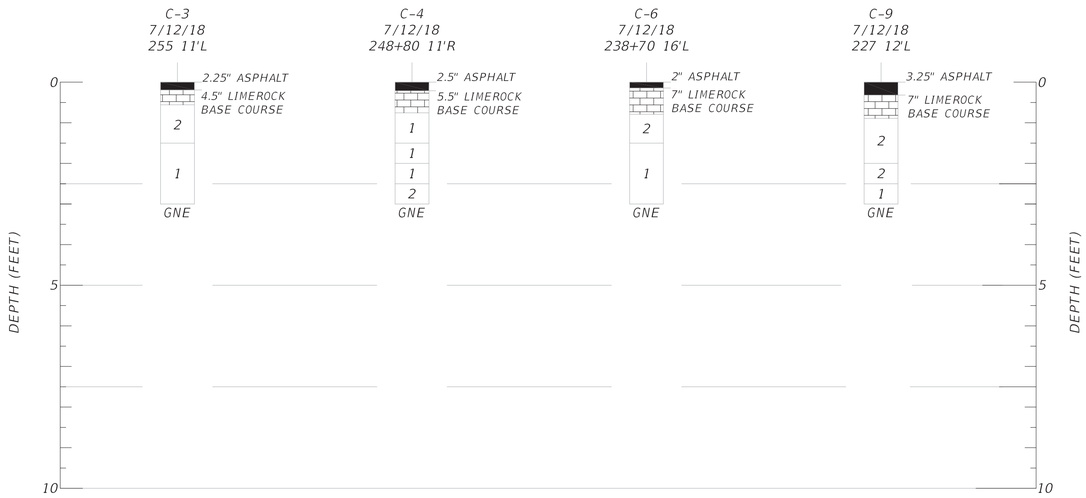
JASON E. GOWLAND, P.E. 66467
GSE ENGINEERING & CONSULTING, INC.
CERTIFICATE OF AUTHORIZATION 27430

JBROWN PROFESSIONAL GROUP, INC.

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
16th	ALACHUA	N/A

ROADWAY SOIL SURVEY

SHEET NO.
C7.0



LEGEND

1. (A-3)
   TAN, LIGHT GRAY TO TAN, BROWN, GRAY, LIGHT GRAY, SAND WITH SILT
2. (A-2-4)
   BROWN, GRAYISH BROWN, DARK BROWN, WHITE, SAND WITH SILT, SILTY SAND, SILTY SAND WITH CLAY

A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW

▼ GROUNDWATER TABLE

▽ ESTIMATED PERCHED SEASONAL HIGH GROUNDWATER TABLE

* ESTIMATED SEASONAL HIGH GROUNDWATER IS DEEPER THAN BORING DEPTH IF NOT SHOWN.

GNE GROUNDWATER NOT ENCOUNTERED

B.T. BORING TERMINATED

DCP DYNAMIC CONE PENETRATION RESISTANCE VALVE

SOIL PROFILES

0 5'

VERTICAL SCALE
1" = 5' APPROX.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

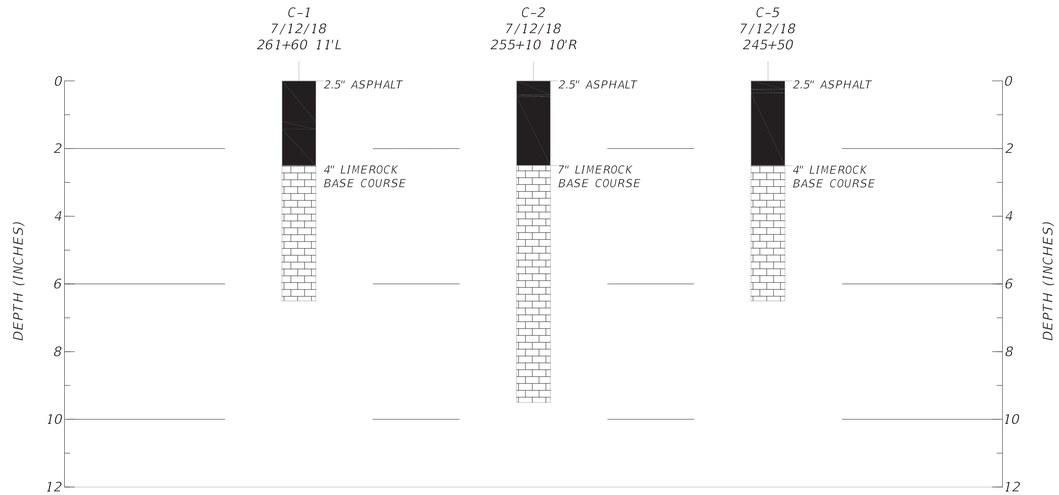
JASON E. GOWLAND, P.E. 66467
GSE ENGINEERING & CONSULTING, INC.
CERTIFICATE OF AUTHORIZATION 27430

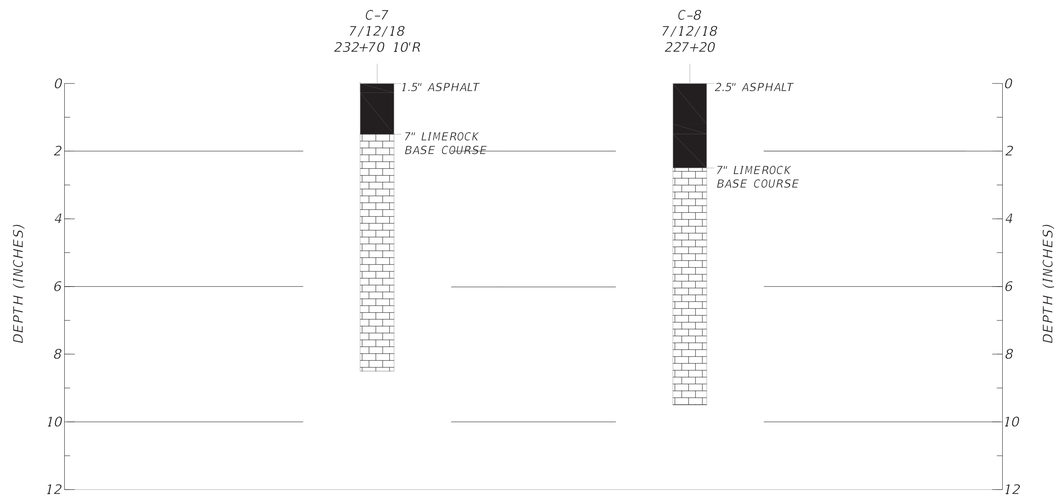
JBROWN PROFESSIONAL GROUP, INC.

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
16th	ALACHUA	N/A

NW 16TH AVENUE
GAINESVILLE, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 13673

SHEET NO.
C7.1





LEGEND

1. (A-3)
   TAN, LIGHT GRAY TO TAN, BROWN, GRAY, LIGHT GRAY, SAND WITH SILT
2. (A-2-4)
   BROWN, GRAYISH BROWN, DARK BROWN, WHITE, SAND WITH SILT, SILTY SAND, SILTY SAND WITH CLAY

A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW

▼ GROUNDWATER TABLE

▽ ESTIMATED PERCHED SEASONAL HIGH GROUNDWATER TABLE

* ESTIMATED SEASONAL HIGH GROUNDWATER IS DEEPER THAN BORING DEPTH IF NOT SHOWN.

GNE GROUNDWATER NOT ENCOUNTERED

B.T. BORING TERMINATED

DCP DYNAMIC CONE PENETRATION RESISTANCE VALVE

SOIL PROFILES

0 — 0.5'

VERTICAL SCALE
1" = 0.5' APPROX.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

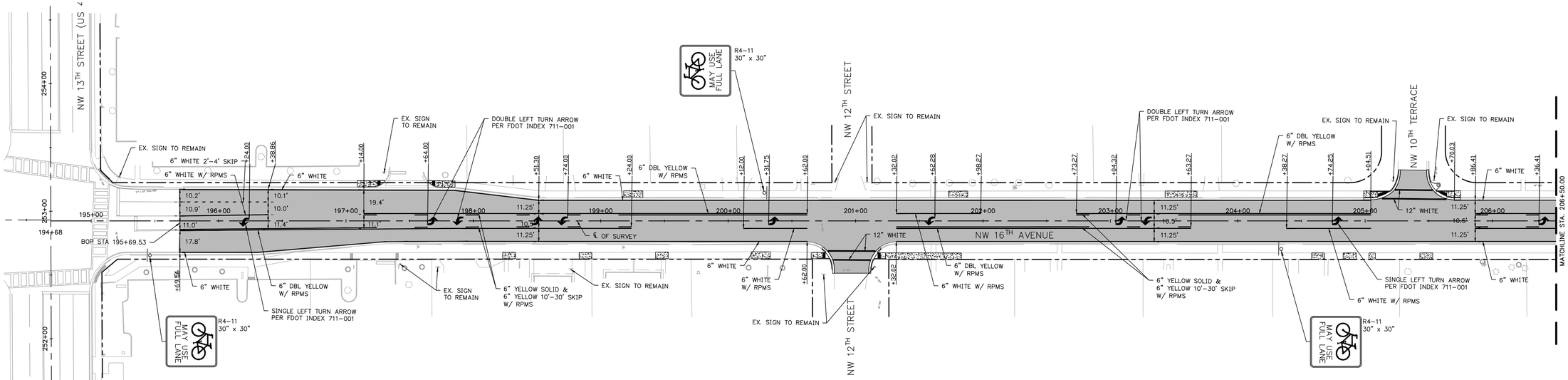
JASON E. GOWLAND,
P.E. 66467
GSE ENGINEERING &
CONSULTING, INC.
CERTIFICATE OF
AUTHORIZATION 27430

JBROWN PROFESSIONAL GROUP, INC.

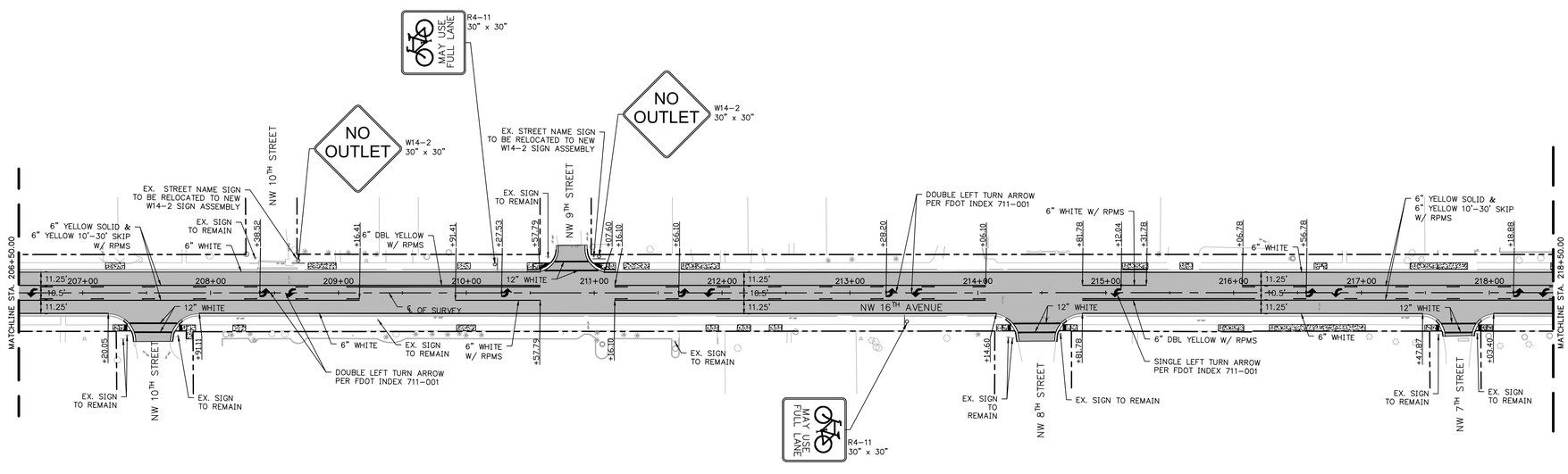
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
16th	ALACHUA	N/A

NW 16TH AVENUE
GAINESVILLE, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 13673

SHEET NO.
C7.2



STA. 195+69.53 TO 206+50.00



STA. 206+50.00 TO 218+50.00

NOTES:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STD INDEX 711-001.
2. ALL SIGNAGE SHALL CONFORM TO CURRENT MUTCD STANDARDS.
3. ALL REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO FDOT STD INDEX 706-001.

40 20 0 40 80 120

SCALE 1" = 40'

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group, ou=INGENIERO, email=jay@jbprogroup.com, c=US Date: 2019.05.30 17:41:39 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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Fla. Board of Professional Engineers CA No. 30495

3530 NW 43rd Street • Gainesville, Florida 32606
PHONE: (352) 375-8999 • FAX: (352) 375-0833
E-MAIL: contact@jbprogroup.com

SHEET TITLE: SIGNING AND PAVEMENT MARKING PLAN
STA. 195+69.53 TO STA. 218+50.00

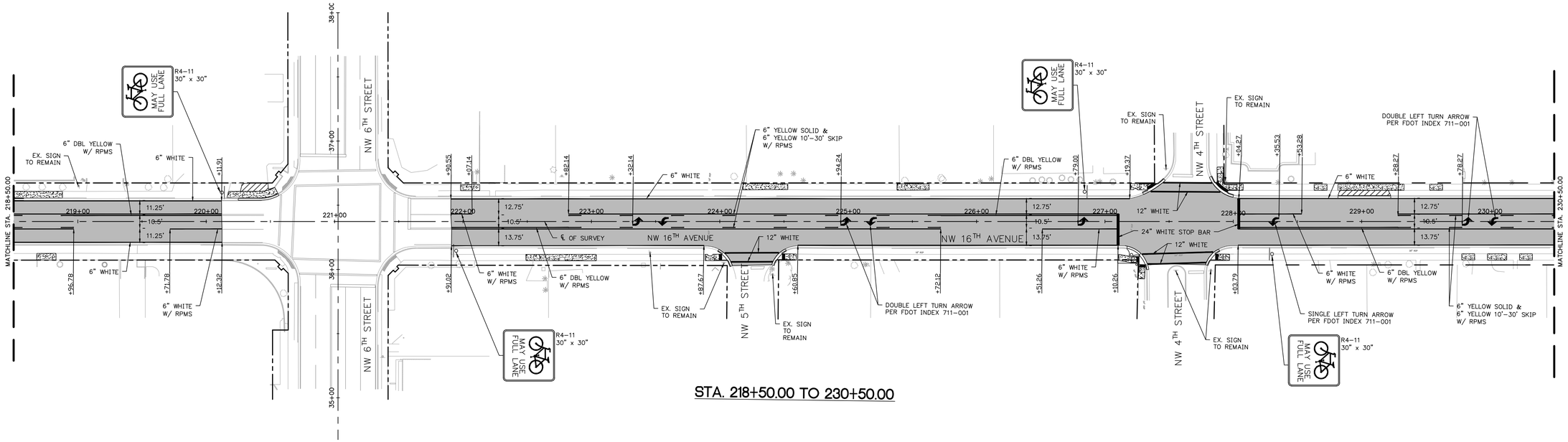
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

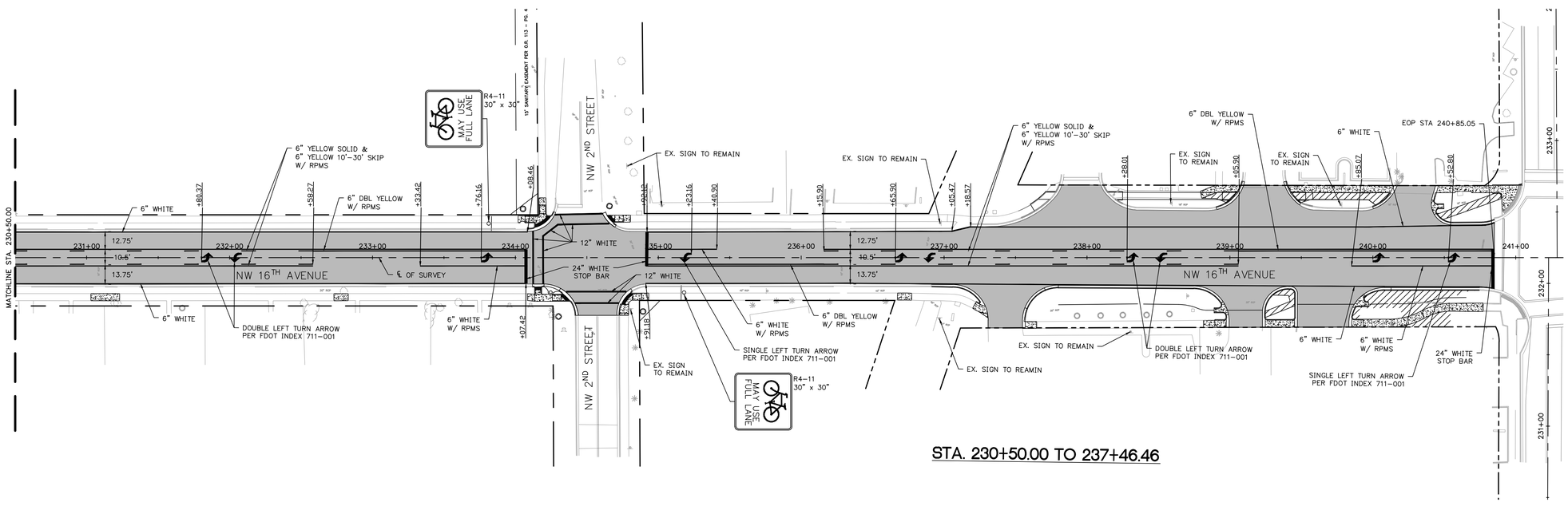
DATE: MAY 2019

PROJECT NO: 338-18-06

SHEET NO: C8.0



STA. 218+50.00 TO 230+50.00



STA. 230+50.00 TO 237+46.46

NOTES:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STD INDEX 711-001.
2. ALL SIGNAGE SHALL CONFORM TO CURRENT MUTCD STANDARDS.
3. ALL REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO FDOT STD INDEX 706-001.

40 20 0 40 80 120

SCALE 1" = 40'

May 29, 2019 – 15:08:05 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C8.0 SIGNALIZATION PLANS.dwg

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.

Digitally signed by Anthony J Brown Jr. DN: cn=Anthony J Brown Jr., o=JBrown Professional Group Inc., ou=A01227010000018972A2753000001D6B, email=tonyb@jbprogroup.com, c=US Date: 2019.05.30 17:41:54 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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E-MAIL: contact@jbprogroup.com

SHEET TITLE: SIGNING AND PAVEMENT MARKING PLAN
STA. 218+50.00 TO STA. 237+46.46

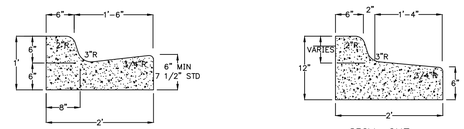
CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

DATE: MAY 2019

PROJECT NO: 338-18-06

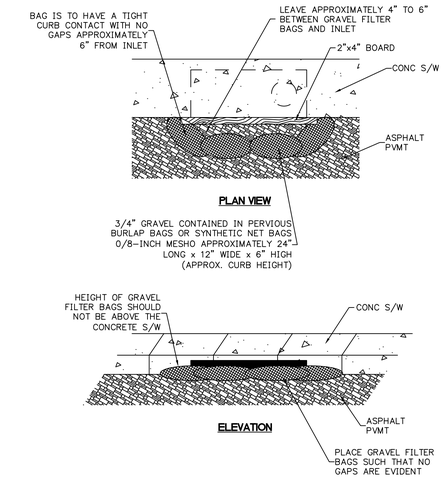
SHEET NO: C8.1



NOTE
WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON THE PLANS.

TYPE 'F' CONCRETE CURB AND GUTTER

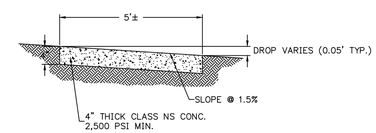
N.T.S.



NOTE: FILTERS CAN BE USED ON PAVEMENT OR BARE GROUND.

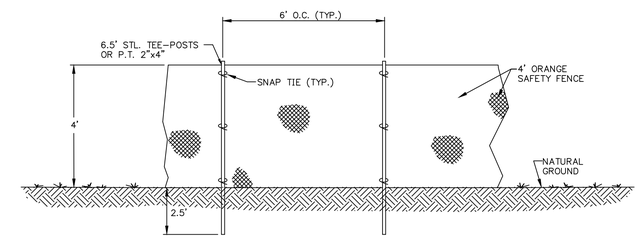
FILTER BAGS DETAIL

N.T.S.



TYPICAL SIDEWALK REPLACEMENT DETAIL

N.T.S.



TREE PROTECTION FENCING DETAIL

N.T.S.

NOTES:
1. NO GRADING WITHIN BARRIERS.
2. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
3. TREE BARRICADES WILL BE CONSTRUCTED BEFORE ANY WORK BEGINS.
4. TREE BARRICADES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
5. STORAGE OF DIRT OR MATERIALS SHALL NOT BE PERMITTED WITHIN TREE BARRICADES OR BEYOND THE CONSTRUCTION LIMITS.
6. TREE BARRICADES SHALL ENCLOSE AN AREA EQUAL TO AT LEAST 2/3 THE DRIP LINE WHERE POSSIBLE.

May 10, 2019 – 12:32:28 – Logan – J:\338-18-06 NW 16th Ave. Resurfacing\Production\Engineering\Sheets\ – C9.0 DETAILS AND NOTES.dwg

REVISIONS

NO.	DATE	DESCRIPTION	DRWN	APPR

Anthony J Brown Jr.
Digitally signed by Anthony J Brown Jr
DN: cn=Anthony J Brown Jr, o=JBrown Professional Group Inc, ou=Civil Engineering, email=jay.brown@jbprogroup.com, c=US
Date: 2019.05.29 17:42:51 -04'00'

ENGINEER OF RECORD: A. J. "JAY" BROWN, JR., P.E. FLORIDA LICENSE NO. 43879

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E-MAIL: contact@jbprogroup.com

SHEET TITLE: DETAILS AND NOTES

DATE: MAY 2019

PROJECT NO: 338-18-06

CLIENT: ALACHUA COUNTY PUBLIC WORKS DEPT.

PROJECT: NW 16TH AVENUE RESURFACING

SHEET NO: C9.0